

### COTTODESTE NuoveSuperfici

# Lightness and versatility

Imagine a ceramic material that can encompass in a thickness of only 3 mm all the technical properties of conventional porcelain stoneware and extend its fields of use also to furnishing. The result is a new ceramic mineral that has made ease-of-use and versatility its strong points. Resistant, flat, easy to cut, drill, install and clean, KERLITE is offered in the brand new 300x100 cm size, with two thickness options to offer a complete range for any intended use: 3 mm (KERLITE 3MM) for interior and exterior walls, 3.5 mm (KERLITE PLUS) for floors. Inspired by the needs of contemporary architecture, KERLITE launches the age of global coverings.







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### 1.1 - What is KERLITE

Produced by means of ground-breaking technology, KERLITE is manufactured in 300x100 cm slabs, with a thickness of 3 mm, using a mixture for porcelain stoneware composed of top quality clay and raw materials. It is pressed at a force of 15,000 tons. Firing takes place in innovative and ecological kilns that are the result of the research and know-how of Panariagroup. Single slabs of KERLITE have a thickness of only 3 mm: this makes them flexible, light and extremely easy to handle. The minimal thickness is the striking feature, which makes the product suitable for a variety of different applications.

### **1.2 - Available types: KERLITE and KERLITE PLUS**



## **KERLITE and KERLITE PLUS: Which and Why**



Wall installation

Interiors	In situations where holes and/ or cuts are <b>not</b> necessary.	KERLITE
	In situations where holes and/ or cuts are necessary.	KERLITE PLUS
•	In situations where holes and/ or cuts are <b>not</b> necessary and with sizes up to 100 x 100 cm.	KERLITE
Exteriors	In situations where holes and/ or cuts are necessary and/or for large sizes.	KERLITE PLUS



## **Floor installation**

	In any situation with the	
Interiors	exception of areas subject to heavy loads (e.g. trolleys with hard wheels).	KERLITE PLUS
Exteriors	Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious.	KERLITE PLUS



To make the most of KERLITE, choose the kind best suiting the intended use and project requirements.



## Working with KERLITE and KERLITE PLUS

### 3.1 - Handling

Owing to their lightness, all types of KERLITE are much easier to handle and transport than slabs of marble, granite and natural stone, which are much thicker and therefore much heavier. With an identical weight, the number of square metres transported is four times greater. The weight of a 100x100 cm slab is only 7.4 kg for the normal version and 7.8 kg for the PLUS version with fibreglass mesh.

#### HANDLING WHOLE SLABS (300x100 cm) OF KERLITE AND KERLITE PLUS



**Fig.1** - 300x100 cm slabs of KERLITE and KERLITE PLUS can be lifted by one person only. Lift the slab with open hands. Slowly raise the longer side so as to eliminate the suction effect, due to contact with the underlying slab, and ensure a good grip.



**Fig.2** - You can now guide the slab to its upright position, keeping it as straight as possible.



**Fig.3** - When the slab is upright, hold it from its top edge and shift it keeping it straight and upright. This operation should be performed with the aid of a second person.

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transport than slabs of

#### STORAGE OF WHOLE SLABS (300x100 cm)

All versions of KERLITE slabs (300x100 cm) can be stored either in vertical or horizontal position. If you place one slab on top of the other, make sure that each slab is clean and that the surface the slabs are resting on is flat.



**Fig.6** - As concerns the upright position, place the long side of the slab on a wood-en plank.

#### HANDLING PACKAGES CONTAINING 300x100 cm SLABS

Lifting and handling palletised packages with forklift trucks:



**Fig.7** - To take on pallets from their long side, position the forks at a distance of at least 1 metre the one from the other, perpendicular to the long side of the pallet and at the centre of the latter. Forks must be supporting the entire surface of the pallet.





**Fig.4/5** - All versions of KERLITE slabs, of size 300x100 cm, can be handled by two persons, using a special frame. Fasten the frame to the slab when it is still on the pallet. Now raise the frame and slab to eliminate the suction effect.



### Frame

To safely handle slabs of KERLITE in the 300x100 cm size, a special frame is available upon demand. It is made of aluminium and features suction cups. It is ideal for installing on scaffolding at a height of over 2 metres.



**Fig.8** - To take on pallets from their short side (e.g. when unloading containers), you must use forks with a length of at least 2.5 metres to guarantee a sufficiently long supporting surface and therefore protection of the package and its contents.

### 3.2 - Drilling, cutting and edge-finishing

A striking feature of KERLITE is its extreme ease-of-installation: this material can be easily cut, shaped and drilled both by tile layers and by specialised persons (stone cutters, glass-workers, etc.) using automatic machines and tools for porcelain stoneware, glass and marble.

If you have to drill holes for pipes or perform cuts for switch boxes or other items, you

A striking feature of KERLITE is its extreme ease-ofinstallation.

### 3.2.1 - Manual processing

must choose KERLITE PLUS.

#### PREPARATION

It is essential to work on a flat and clean surface. For instance, you can use the cover of the pallet of the 300x100 cm slab.

#### CUTTING WITH A GLASS CUTTER OR MANUAL TILE CUTTER



Fig.9 - You can obtain excellent results in terms of shape and clear cuts by engraving all versions of KERLITE with Silberschnitt 2000 special glass cutters made by **Bohle** Italia or with the manual tile cutter made by Würth. To achieve good cuts, never detach the glass cutter from the slab throughout the entire cutting operation.



straight as possible, you may use aluminium levelling rods of the type commonly used by brick layers.



Fig.10 - To ensure that the engraving is as Fig.11 - After engraving, it is sufficient to bend the slab to detach the two pieces.



Fig.12 - As far as KERLITE PLUS is concerned, after engraving the ceramic part and splitting the slab, complete the operation by cutting the fibreglass mesh with a standard cutter.



Fig.13 - A practical tool for cutting is the tile cutter ruler (for instance Keracut from Sigma or Free-cut from Raimondi). As far as KERLITE PLUS is concerned, after engraving the ceramic part and splitting the slab, complete the operation by cutting the fibreglass mesh with a standard cutter (Fig.12).

#### CUTTING WITH DIAMOND DISCS



Fig.14 - All versions of KERLITE can be cut using diamond discs fitted onto hand-held electrical grinding machines. Disc rotation speed must be high (>10000 RPM) and speed at which tool is pushed low (< 1 m/min). Depending on the type of disc and the length of the cut, it may be necessary to cool the disc with water. Recommended discs are the thin types generally used for cutting porcelain stoneware. The advantages of this type of cut include ease-of-execution and the possibility to cut during installation.

DRILLING



Fig.15 - As far as manual drilling is concerned, use tungsten bits with a diameter up to 10 mm, fitted to electric drills or battery-operated screwdrivers.

#### When using these tools:

- cool the point drilled with water;
- do not exert too much pressure and bear in mind the resistance of the type of laminated stoneware you are working on;
- if you are using tungsten bits, start drilling at a low speed;
- if you are using a drill or a screwdriver, do not select hammering mode.

#### EDGE-FINISHING



Fig.18 - Edges can be finished by hand using abrasive diamond sponges or emery paper. With a light passage on the side of the slab, you can obtain a slightly roundedoff edge or with repeated passages a bevelled effect



Fig.19 - The same results can be obtained with sanding discs fitted onto angle grinders.



Fig.16/17 - As an alternative, you can use cutting discs fitted to angle grinders, electrical drills or battery-operated screwdrivers.

#### 3.2.2 - Processing with automatic machines



If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose KERLITE PLUS.

Irrespective of the system adopted, the underlying surface must be perfectly flat to prevent minor vibration and movements of the slab that could lead to breakage or damage to the finish. It is recommended to use diamond tools for porcelain stoneware, in good working order.

If you have to drill holes for pipes or perform cuts for switch boxes or other items, you must choose KERLITE PLUS. To obtain internal corners, round off the vertex of the corner using bits with a radius of at least 5 mm that reduce the risk of breakage. It is recommended to perform a few tests before cutting so as to set up the machine in the best manner possible. Operating parameters provided in this guide are to be considered as **indicative** and must be perfected and checked by the user based on the material used and the operations to perform.

#### ENGRAVING



Fig.20 - KERLITE and KERLITE PLUS can be cut by engraving. This operation must be performed on a cutting bench and on the front face of the slab. As far as KERLITE PLUS is concerned, if this operation cannot be performed automatically on the cutting bench, the fibreglass mesh must be cut by hand with a cutter. Move the cutting tool forward at a speed of 10 m/min. and in any case at a suitable speed for the finish and colour of the slab. Apply an average pressure of about 1.2 bar. For slabs with light colours, you must exert a pressure of about 1.5 bar.

#### **CUTTING WITH A DISC**



Fig.21 - All versions of KERLITE can be cut with diamond discs. Use discs made especially for porcelain stoneware and in good working order. Disc rotation speed must be high (>2000 RPM) and speed at which tool is pushed low (from 0.5 to 1 m/min.) Depending on the type of disc and the length of the cut, it may be necessary to cool the disc with water. Reduce speed at the start and and the end of the cut.

#### CUTTING WITH A NUMERIC CONTROL MACHINE



Fig.22 - All versions of KERLITE can be cut with numeric control machines. Cutter rotation speed ranges from 12000 to 18000 RPM. The cutter must be pushed forward at a speed ranging from 0.5 to 1 m/min.

#### **CUTTING WITH A WATER JET MACHINE**



Fig.23 - All versions of KERLITE can be cut with water jet cutting machines. Adopt a speed ranging from 2 to 3 m/min.

#### DRILLING WITH A NUMERIC CONTROL MACHINE



#### **DRILLING WITH A WATER JET MACHINE**



Fig.25 - All versions of KERLITE can be drilled with water jet cutting machines. With water jet machines, you can obtain holes with a smaller diameter with respect to those possible with a numeric control machine. Operating speed must range from 2 to 3 m/min.

#### EDGE POLISHING



be tested beforehand.

#### 45° CUT



BEVELLING



Fig.28 - All versions of KERLITE can be bevelled. To obtain curved edges, use a numeric control machine with a 5-axis disc. Different discs are available for obtaining a variety of edge finishes. Operating speed must be tested beforehand.

Fig.24 - All versions of KERLITE can be drilled with numeric control machines.

Drill a preliminary hole using a diamond drill bit. If necessary, use a cutter to enlarge the hole to the requested size. Use a bit with a diameter ranging from 4 to 8 mm. Operating speed is 40 mm/min. with spindle rotation of 900 RPM. When using these tools: cool the point drilled with water; start drilling at a low speed; never exert too much pressure and bear in mind the resistance of the type of KERLITE you are working on.

Fig.26 - To shape and polish the edge of the slab, use diamond/abrasive discs, which are suitable for obtaining an edge of the shape and size requested. Then use a polishing disc. Different discs are available for obtaining different edge finishes. Operating speed must

Fig.27 - To obtain 45° cuts, use 45° diamond discs. In this manner, you can join two slabs of KERLITE to create a corner. The corner must be bevelled. Different discs are available for obtaining a variety of edge finishes. Operating speed must be tested beforehand.



## Installing KERLITE and KERLITE PLUS

In the same manner as all building materials, KERLITE works in combination with other materials. For this reason, it is essential to: define the characteristics of the support on which slabs will be installed (see "4.1 - Preparing the support")

choose the right adhesive for the support and intended use (see "4.2 - Recommended adhesives")

- lay KERLITE on the support in the correct manner (see "4.3 - Installation instructions")

If the requirements of these three points are fulfilled, KERLITE will offer all the best of its unique characteristics.

### 4.1 - Preparing the support

#### 4.1.1 - Supporting material: requirements

Irrespective of whether you are installing on walls or on floors, the support **must** have the characteristics described in detail below. Granting and checking these conditions is at the care of the engineer and of the persons performing installation work.

#### ■ COMPACT



Fig.29/30 - Make sure that the support is compact both in terms of surface and structure. Check compactness of surface by tracing (engraving) a grid on the support with the edge of a trowel or with a steel nail. A support can be considered as compact if it does **not** crumble or pulverise in the point where the lines of the grid intersect. Check compactness of the structure by tapping on the surface with a 750 g mallet: no marks should form and the sound heard when tapping must not be hollow. The presence of layers or areas with a more brittle consistence means that mechanical characteristics are poor and may cause breakage or dislodging of slabs.

mm

#### DRY



Fig.31 - This test can be performed using a hygrometer for building materials. For cement-based screeds, a moisture content of less than 2% before installation is acceptable. As far as anhydrite screeds are concerned, the moisture content must be lower than 0.5%.

#### ■ STABLE OVER TIME



Fig.33 - The support must have suitable features for the intended use and must remain stable over time.

#### FLAT



#### CLEAN



Fig.34 - The support must be clean. Dust, oil, grease, dirt and debris must be removed as they may compromise adhesion of the adhesive.

Fig.32 - Flatness checking is performed us-

ing a levelling rod with a length of at least

2 metres. Place the rod on the screed in all

directions. The permissible tolerance is 2

### NO CRACKS



Fig.35 - In cement-based screeds, the presence of cracks due to hygrometric shrinkage is caused by one or more of the following factors: too much water in the mixture, too fine a grain size of the aggregates, too much cement. Before installation, seal any cracks and holes.

When installing on cement-based floors, the use of self-levelling products, such as Mapei's Ultraplan, guarantees all conditions described above. Use the product in accordance to the manufacturer's instructions.

### 4.1.2 - Supporting material: instructions for particular situations

For installation on particular supports, apart from the features described in paragraph "4.1.1 - Supporting material: requirements", also take into account the following indications:

#### INSTALLATION ON EXISTING FLOORS

Fig.36 - Wood - Make sure it is sound and firmly secured to the substrate. Remove all residues of oil, paint, grease and wax by sandpapering the surface.

possible, adopt mechanical abrasion techniques.

#### INSTALLATION ON EXTERIOR PLASTER



Fig.39 - For wall installation on exterior plaster, KERLITE PLUS must be glued onto a support with a high performance, which resists mechanical stress, such as structural movements, the weight of the tiles, any thermal expansion and atmospheric agents. In this case, we recommend plaster such as KR100 from Fassa Bortolo or BF02 from Grigolin, or plaster with the same characteristics and with an average adhesion capacity to brick of at least 1 N/mm<sup>2</sup> (approx. 10 kg/cm<sup>2</sup>). In correspondence with the edges of doors, windows, etc., it is recommended to apply on plaster strips of mesh, such as Mapegrid G 120 from Mapei, positioned at 45°.

During installation, pay attention to stringcourses and structural joints.

### FLOOR INSTALLATION ON CUSHIONING FOR INSULATION AGAINST SOUND, ETC.

Direct installation on the following products has been checked in the conditions described below. For each of the following systems, follow the manufacturer's instructions and perform work in accordance to "the rules of the trade". After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".



Fig.40 - Watec <sup>®</sup> Drain Kp from Gutjahr <sup>®</sup> This is an uncoupling and draining cushioning material. It is used:

- as drainage system for loggias, balconies and bathrooms;

- as uncoupling element in closed environments, such as: critical substrates (existing floors; mixed substrates; etc.); screeds with a high content of calcium sulphate; heated floors; wooden supports and dry screeds.



Fig.41 - IndorTec <sup>®</sup> 2E-PZ from Gutjahr <sup>®</sup>

This is a highly resistant uncoupling system with a reinforced mesh. This product must be glued to the support. It is therefore possible to proceed with tile installation. It can be used in closed environments: - on critical substrates (existing floors; mixed substrates; etc.);

- fresh, still damp cement screeds; - heated floors;
- wooden substrates and dry screeds.



Fig.37/38 - Old ceramic tile, cotto, stone, marble, PVC - Make sure it is sound and firmly secured to the substrate. Eliminate any residues of oil, grease or wax by washing with a solution of water and caustic soda followed by thorough rinsing. If chemical cleaning is not



#### Fig.42 - Ditra sound from Schlueter Systems®

This is an insulating mat, made of high density polyethylene, which is suitable for installation with adhesive under ceramic coverings. It has an anchoring fleece laminated on both sides to bond with the tile adhesive.

#### 4.1.3 - Supporting material: instructions for special construction systems

Installation is also possible on Construction Systems upon condition that these are installed in accordance to the rules of the trade and the manufacturer's instructions and that the support has the characteristics described in paragraph "4.1.1 - Supporting material: requirements":

#### INSTALLATION ON FIBRE CEMENT PANEL SYSTEMS (BACKER BOARD)



Fig.43 - This system consists of cement-based panels enclosed within two layers of fibreglass mesh, to be installed both on walls and on floors and secured either mechanically or chemically to the underlying structure. When preparing this support, strictly follow the manufacturer's instructions. Make sure that the points of contact between support and slab are filled with adhesive and that there is an overlying layer of fibreglass mesh submerged in the adhesive used for installation. This will ensure a support without cracks. After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 - Supporting material: requirements".

#### INSTALLATION ON SUSPENDED TIMBER FLOORS



Fig.44 - This construction system consists of a floor made of wooden planks secured by means of nails to a lattice of stringers. Installation of this construction system is similar to that of existing floors, namely "On existing floors - Wood - Fig.36": follow the instructions provided.

#### INSTALLATION ON SUSPENDED SUPPORTS (E.G. GIFAFLOOR FHBPLUS BY KNAUF)



Fig.45 - This system consists of gypsum fibreboard panels resting on steel supports with an adjustable height. When preparing this system, strictly follow the manufacturer's instructions. Make sure that the points of contact between support and slab are filled with adhesive. This will ensure a support without cracks. After installing the system, make sure that the support on which the slabs will be laid has the features described in paragraph "4.1.1 -Supporting material: requirements". Application of a primer before the tile adhesive must be decided upon by the manufacturer of the adhesive you intend to use.

#### INSTALLATION ON ELECTRICAL HEATING SYSTEMS



Fig.46 - An evolution of the classical heating system where the radiant element is embedded in the screed. This system consists in installing the radiant element beneath the tiles or rather in the adhesive used for installation of KERLITE or under a layer of self-levelling material. This type of system can be installed directly on a screed or existing floor. A layer of insulating material may be installed in between. Irrespective of the number and type of layers, after the adhesive or self-levelling material has undergone seasoning, you must makes sure that the support has the features described in detail in paragraph "4.1.1 Supporting material: requirements".

#### WALL INSTALLATION ON UNCOUPLING OR MICROVENTILATED CUSHIONING - SYSTEM CeraVent\* BY GUTJAHR\*



Fig.47 - KERLITE PLUS can be installed directly on the CeroVent<sup>®</sup> Gutjahr<sup>®</sup> system. This system allows for wall installation (walls featuring salt and rising damp, damaged facades, mixed supports, prefabricated materials, etc.) and offers microventilation and uncoupling from the substrate.

#### 4.1.4 - Supporting material: instructions for installing in accordance to "the rules of the trade"

Here below you will find some basic information concerning the rules of the trade to follow for the most common types of supporting material:

#### CEMENT-BASED SCREEDS



Fig.48 - The curing/seasoning time of cement-based screeds is of essential importance. As far as conventional sand/cement screeds are concerned, this time is about 7/10 days per cm of thickness. If you are using premixed products, such as Mapei's Topcem Pronto or Kerakoll's Keracem Eco Pronto, follow the instructions of the manufacturer.

#### General rules for correct construction of a screed:

- area.
- of its curing period.

#### ANHYDRITE SLABS



tent is 0.5%).

#### HEATED SCREEDS



Fig.50 - Before starting the heated floor system, wait at least 14 days after casting the screed. As prescribed by the UNI EN 1264-4 standard, in paragraph 4.4, heating begins at an initial temperature ranging from 20°C to 25°C, which must be maintained for at least 3 days. Then set the maximum permissible design temperature and maintain it for at least 4 days. Once the floor has reached ambient temperature, tile installation can begin.

CONCRETE



- aggregates: these must be clean and not contain impure particles. The grain size must be suitable for the thickness of the screed to make;

- levelling strips: these must be made using the same binding agent used for the screed;

- sealing between hardened surfaces and moist mixture: joints between hardened screeds and moist mixture must be made by applying to the end of the hardened screed (clearly cut, perpendicular to the support) adhesion grout, water and binding agent;

- presence of pipelines in the screed: above any pipes, there must be a layer of mortar with a thickness of about 2.5 cm; it is necessary to place, above the pipelines, a metal mesh with a wire thickness of 2 mm so as to provide the necessary reinforcement beneath the thin layer of screed above and prevent the formation of cracks;

- finish: finishing can be performed with a trowel, a steel disc or smoothing tool, paying attention neither to moisten the surface too much nor to work for too long on the same

- checking residual moisture: this must be performed after the screed has reached the end

Fig.49 - Follow the instructions of the manufacturer. Before installation, the screed must be sandpapered, dedusted and perfectly dry (the maximum permissible moisture con-

Fig.51 - Concrete must be sufficiently cured (this takes about 6 months or even more, depending on its thickness, composition, thermo-hygrometric requirements, etc.) and must not feature surface treatments such as mould release agents, resin, anti-evaporation treatments, old adhesives, etc. Floor slabs must be insulated against rising damp.

### 4.2 - Recommended adhesives



It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

As a general rule that applies for all building materials to be secured in place with adhesive, there is no universal adhesive for installing KERLITE on all kinds of surface.

Since it is not possible to describe all possible cases, we have provided information about the most common situations. First of all, we have divided installation cases into "walls" and "floors" and then into "interior" and "exterior". Depending on the rated stress, on any work to be performed subsequently and on the maximum dimension of the slab, we have assigned a certain type of KERLITE to each category. Starting from this classification, we have thus examined the most common kinds of supporting material. The resulting chart has been sent to all main manufacturers of adhesive that have, in turn, provided the most suitable product for each category.

Please note that all solutions suggested have been submitted by adhesive manufacturers, who guarantee the indications given. For explanations or more information, contact the respect manufacturers (see "9 - Handy addresses").

It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

### Wall installation

	In situations where holes and cuts		Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 36
	are <b>NOT</b> necessary and with sizes	KERLITE	Concrete, old ceramic tile, marble, stone	Page 37
	up to 100 x 100 cm.		Particle board, metal	Page 38
		PLUS	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 39
Interiors	In situations where holes and cuts are necessary.	<b>KERLITE P</b>	Concrete, old ceramic tile, marble, stone	Page 40
		KER	Particle board, metal	Page 41
	In situations where holes and cuts	KERLITE	Plaster	Page 42
	are <b>NOT</b> necessary and with sizes up to 100 x 100 cm.		Concrete	Page 43
	In situations where holes and cuts	<b>ERLITEPLUS</b>	Plaster	Page 44
Exteriors	are necessary and/or for large sizes.		Concrete	Page 45



### **Floor installation**

	In any situation with the exception of areas subject to		Cement-based screeds, calcium sulphate-based or heated screeds, self- levelling products, concrete, old ceramic tile, marble slabs, stone	Page 46
Interiors	heavy loads (e.g. trolleys with hard wheels).	KERLITE	Wood, PVC, rubber, linoleum, metal, resin	Page 47
	Upon condition that surfaces are sheltered (e.g. loggias, covered	EPLUS	Cement-based screeds, calcium sulphate-based or heated screeds, self- levelling products, concrete, old ceramic tile, marble slabs, stone	Page 46
Exteriors	balconies, etc.) and made totally impervious.	Kerlite	Wood, PVC, rubber, linoleum, metal, resin	Page 47

How to	How to read the <b>attachment</b>									
At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
01	02	03	04	05	06	07	08	09	10	11

- **01**\_ The installation supervisor must examine the conditions of the work site to choose between a normal setting adhesive or a quick setting adhesive.
- **02**\_ Adhesive manufacturers.
- **03**\_ Depending on the adhesive recommended by the manufacturer, you will find the size in cm of the slab.
- **04**\_ List of adhesives recommended by manufacturers based on the intended use and size of the slabs.
- **05** List of primers to use before adhesive application, as indicated by manufacturers for each intended use.
- **06**\_\_\_ The mixing ratio refers to a single product unit (a bag, a can, etc.), in order to obtain the characteristics declared by manufacturers.
- 07\_ The adhesive's class under the UNI EN 12004 standard is indicated. (see "About ADHESIVES" below).
- **08** You will find an indication of how many square metres you can install with a single product unit prepared with the established mixing ratio.
- **09** You will find the time you must wait before treading on the surface to fill joints with grout.
- 10\_ You will find the time that must pass before using the floor, i.e. before it can go subject to static and/or dynamic stress.
- **11** You will find the installation method and features of the trowel to use for each adhesive.

About ADHE
Adhesives are divided into THREE CLASSES, depending on their composition, as established
CEMENTITIOUS (C): mixture of hydraulic binding agents, aggregates and organic additives (note to l
REACTIVE (R): mixture of synthetic resin, mineral fillers and organic additives, which harden due to a
DISPERSION (D): mixture of binding and organic agents, namely polymers in aqueous dispersion, or
Depending on their features, adhesives are thus classified:
Class 1: normal setting
Class 2: improved setting properties
There are three additional classes:
Class <b>F</b> : quick setting adhesives
Class <b>T</b> : slip resistant adhesives
Class <b>E</b> : adhesives with extended open time
There is a fourth additional class for cementitious adhesives only: adhesives can be classified standard:
Class S1: deformable adhesives
Class <b>S2</b> : highly deformable adhesives

#### ESIVES

by the UNI EN 12004 standard:

be mixed with water or other liquid additive immediately before use)

a chemical reaction (note: these adhesives may have one or more components)

rganic additives and mineral fillers (note: ready-to-use mixtures)

as DEFORMABLE (S) and divided on the basis of test results under the UNI EN 12002

### 4.3 - Instructions for installation

#### 4.3.1 - Adhesives: single-layer method / double-layer method

The installation technique and type of trowel to use depend basically on the type of adhesive used. This information can be found in the "Recommended adhesives" section. Depending on the intended use and on the type of adhesive used, all versions of KERLITE can be installed both with a single-layer of adhesive or with the "double-layer" technique. In all cases, follow the indications below and make sure that support and slab are entirely coated with adhesive.

#### SINGLE-LAYER METHOD



Fig.53 - Floor installation

Fig.52 - Wall installation **DOUBLE-LAYER METHOD** 



Fig.54



#### BOTH FOR THE SINGLE-LAYER AND DOUBLE-LAYER METHOD



Fig.56



### 4.3.2 - Laying the slab

Being extremely light, slabs are easy to install. 300x100 slabs:



Fig.57

Fig.55



This method refers **only** to adhesives that

bear the indication "single-layer" in the "Recommended adhesives" section. Spread the adhesive full-bed on the surface to cover (Fig.52/53), using a trowel with the features indicated in the "Recommended adhe-

Apply adhesive with the double-layer technique i.e. by spreading the adhesive fullbed on the surface to cover (Fig.52/53), using a notched trowel with tilted teeth at a distance of 6 mm the one from the other (e.g. Raimondi item n°138HFV6). Also apply the adhesive on the under side of the slab, using a trowel with 3 mm teeth (Fig.54). When installing on floors, remem-

ber to spread adhesive around the edge of

After laying the slab, make sure it is firmly

adhering to the underlying surface to pre-

vent gaps and air bubbles forming. For this

purpose, you can use rubber coated trowels (e.g. Raimondi "142G") for wall and floor installation (Fig.56) or electrical tile tapping

tools with plastic plates (e.g. Raimondi

"Cucciolo" Fig.57) for floor installation.

sives" section.

the slab (Fig.55).

Fig.59 - 2 - Rest the slab on its long side Fig.58 - 1 -To handle slabs, raise them to their upright position, whilst grasping them and guide it towards the floor. from the top edge. Move the slab keeping it straight and with the aid of another person.



KERLITE has an expansion coefficient equal to  $7.0 \times 10^{-6} \, {\rm °C^{-1}}$  (i.e. for a temperature range of  $70^{\circ}$ C, expansion is 0.5 mm per linear metre). Despite expansion being minimal, it is however necessary to install all types of KERLITE, both for walls and floors, in compliance with the following instructions:



Interiors	Joint between slabs necessary. Minimum size is at least 1 mm.	The size and position of <b>expansion joints</b> must be established by the installation supervisor.
Exteriors	Joint between slabs necessary. Minimum size is at least 5 mm.	Expansion joints are necessary. The size and position of joints must be established by the installation supervisor. As a general rule, provide at least every 9 m <sup>2</sup> .

#### FURTHERMORE:



Interiors Wall installation **Floor installation** 





Fig.60 - In correspondence with a structural joint in the screed, it is mandatory to provide an expansion joint with a width that is at least the size of the existing one.

of different types (e.g. reinforced concrete and bricks), it is mandatory to provide an expansion joint.

For suggestions on the type of joint to use, see "Connecting profiles, finishing and trim pieces". Please also remember that expansion joints can be made using silicone products.





## **Floor installation**

Interiors	Joint between slabs necessary. Minimum size is at least 2 mm.	Expansion joints are necessary. The size and position of joints must be established by the installation supervisor. As a general rule, provide at least every 15/20 m <sup>2</sup>
Exteriors Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally inpervious	Joint between slabs necessary. Minimum size is at least 5 mm.	Expansion joints are necessary. The size and position of joints must be established by the installation supervisor. As a general rule, provide joints every 9 m <sup>2</sup> .



**Fig.61** - If there are joints between surfaces





Fig.62 - Around fixed elements of the supporting surface, such as walls, steps, columns, etc., it is mandatory to provide 5-8 mm peripheral joints.

#### CLEANING AFTER INSTALLATION

Cleaning "after installation" is necessary for removing residues of grout, cement and mortar. This operation is mandatory after installation both for glazed tiles and unglazed ones.

Non-slip surfaces: due to their particular, non-slip, rough or structured textures, these surfaces are more difficult to clean. Therefore pay particular attention to cleaning, in particular clean sooner and use motorised brushes with white and beige discs.

Grout used		When to clean		What to use		Methods of use		
Cementitious grout After 4/5 days and with mixed with water. days from grouting.				e "List of acid-	List of acid- List of acid- thoroughly moistened with water. Then apply the detergen and, if necessary, scrape of any residues with a putty knife o abrasive sponge. If residues are particularly hard to remove, repeat. Soak up liquid and rinse thoroughly and repeatedly with water. Brush and dry with a cloth.			
Epoxy grout, Cementitious grout with add (resin, latex, etc.).	ditives	Immediately		Follow the instructions of Before gro		Before grouting, p	idues must be removed before they harden. 19, perform a cleaning test to find out when 5 and when it should be cleaned.	
List of acid-based deto	n on the packa		Grou	If after-installa	ation cleani What do you		en correctly performed What should you do	
product on a tile before actual use. This applies in to lapped or polished products. Name of detergent Manufacturer		•		entitious grout mixed water.	Residues, glo	ssy films.	Use the same acid-based detergent used for after-installation cleaning but dilute le Apply the detergent and scrape residues	
Keranet Deltaplus Cement Remover Pavim Deterdek Trek	Mapei Kerakoll Faberchim PanariaGro Fila Kiter					***	with a putty knife or abrasive sponge. If residues are particularly hard to remove, repeat. Soak up liquid and rinse thorough and repeatedly with water. Brush and dry with a cloth.	
Zementschleierentferner HMK R63 Solvacid Litoclean Plus	Lithofin HMK Geal Litokol		Cem	cy grout, entitious grout with tives (resin, latex, etc.).	Marks, in part grouting join	icular around the ts.	Once it has hardened, grout is very difficu or even impossible to remove. Contact th grout manufacturer.	

#### ■ PROTECTIVE AGENTS FOR GROUTING JOINTS

Bonasystems Italia

Bonasystems Italia

These are used to reduce porosity and therefore make cementitious grout more resistant to stains. Use of protective agents can make cleaning easier. Follow the instructions given on the package. Test the product on a tile before actual use. This applies in particular to lapped or polished products.

Grout used	Product name	Manufacturer	Methods of use
Cementitious grout mixed with water	Fugaproof KF Fugenschutz	Fila Lithofin	Follow the manufacturer's instructions.

#### ■ NON-SLIP TREATMENT

Bonaclean Bonadecon (\*)

(\*) especially made for materials that are **not** acid-resistant.

Non-slip properties of installed floors (glazed or unglazed) can be improved using specific products. Follow the instructions given on the package. Before application on an installed floor, test the product on a loose tile. The longer you leave the product on the tile, the more you increase non-slip properties. However, this can whiten the tiles a little and make cleaning a little more difficult.

Product name	Manufacturer	Methods of use	Maintenance
Safe Floor Safe Floor 30 Bonagrip	Faberchimica Faberchimica Bonasystems Italia	Follow the manufacturer's instructions.	Follow the manufacturer's instructions.

#### DAILY CLEANING

For daily care, use neutral detergents diluted in plenty of warm water. Detergents should not contain wax or leave glossy stains. Dry with a microfibre cloth. Rinse with water after washing and dry with a clean microfibre cloth.

Support to clean	What to use			Methods of use	
KERLITE KERLITE PLUS DECORATIONS		Neutral detergent without wax (see "List of detergents). NEVER use alcohol, acid, solvents, abrasive detergents, abrasive sponges or pads.			ater. Rinse thoroughly after washing. rinsing and drying), use good quality
List of detergents		If daily cleani	ing h	nas been done using u	nsuitable detergents
	on the nackage Test	Support to clean	Wh	nat do you see	What should you do
Follow the instructions given on the package. Test the product before actual use on a tile. This applies in particular to lapped or polished products.				ainst light.	Apply a mildly acid detergent (e.g. <b>Tile</b> <b>Cleaner</b> from Faberchimica or Bonamain PLUS from Bonasystems Italia). Use product undiluted and let it work for 5 to
Name of detergent Floor Cleaner Fila Cleaner Pflegereiniger HMK P15 Bonamain Plus (*) Bonadecon (*) (*) DO NOT use for cleaning DECORATIONS	Manufacturer Faberchimica Fila Lithofin HMK Bonasystems Italia Bonasystems Italia			rks remain.	10 minutes. Then rub with a white pad, rinse with plenty of water and dry with a microfibre cloth.

#### EXTRA-DUTY CLEANING

Support to clean	Type of dirt	What to use	Methods of use	Name of detergent	Manufacturer
	Coffee, Coca Cola®, fruit juice	Alkaline-based detergent	Follow the instructions of the detergent manufacturer.	Coloured stain remover PS87 Greslind	Faberchimica Fila PanariaGroup
	Grease, dust from foot traffic, deep- down cleaning	Alkaline-based detergent	Follow the instructions of the detergent manufacturer.	PS87 Litonet Greslind Intensivreiniger HMK R55 Taski R20-strip Bonamain, Bonadecon	Fila Litokol PanariaGroup Lithofin HMK Johnsondiversey Bonasystems Italia
	Wine	Oxidising detergent	Follow the instructions of the detergent manufacturer.	Oxidant	Faberchimica
	Lime residues	Acid-based detergents	Follow the instructions of the detergent manufacturer. Test the product on a tile before actual use. This applies in particular to lapped or polished products.	Viakal	Procter & Gamble
KERLITE KERLITE PLUS	Rust	Acid-based detergents	Dilute the product and apply on the stain. Allow to work for 10/20 minutes then rinse thoroughly. If necessary repeat. Test the product on a tile before actual use. This applies in particular to lapped or polished products.	Diluted muriatic acid	(various makers)
	Tyre marks, pencil marks and metal marks	Abrasive paste	Follow the instructions of the detergent manufacturer. Test the product on a tile before actual use. This applies in particular to lapped or polished products.	Polishing cream Vim clorex Detergum (*) Strong remover (*) (*) DO NOT use on lapped or polished products.	Faberchimica Guaber Zep Italia Faberchimica
	Ink, marker	Solvent-based detergent	Solvents should be applied undiluted on the stain. Let them work for about 15/30 seconds. If necessary repeat. As far as "Coloured stain remover" is concerned, follow the manufacturer's instructions.	Nitro thinner 1,2-dichloroethylene Turpentine Coloured stain remover	(various makers) (various makers) (various makers) Faberchimica
	Dirt from grout	Detergent for grout	Follow the instructions of the detergent manufacturer.	Fuganet Fugenreiniger	Fila Lithofin
DECORATIONS	Any	Neutral, wax-free detergent	Use water and a neutral, wax-free detergent. NEVER use alcohol, acid, solvents, abrasive detergents, abrasive sponges or pads.	Floor Cleaner Fila Cleaner Pflegereiniger HMK P15 Bonamain Plus	Faberchimica Fila Lithofin HMK Bonasystems Italia

## Connecting profiles, finishing and trim pieces

PROFILITEC S.p.A.

SCHLÜTER-SYSTEMS ITALIA SRL

WEDI

RARE



Here below you will find some possible solutions using the profiles sold by the main manufacturers of the sector. The solutions described have different characteristics and sizes, depending on the manufacturer, and cannot be described in detail herein. The drawings and instructions for use are therefore indicative and of a general nature. For more information and to gain an exhaustive idea of the complete ranges offered, refer to the manufacturer. You will find a list of references in "9 - Handy addresses".

www.profilitec.com

www.schlueter.it

www.wedi.it

www.rareboxdoccia.com

You can complete all versions of KERLITE walls and floors with the profiles available on the market.

PROFILES FOR DOORS AND WORK TOPS	Manufacturer	Best-selling products
Full profile		
	Profilitec	Planotec BP
	Progress Profiles	Protop
Profiles with tile compartment		
	Progress Profiles	Protect J, T, Q

SHOWER SYSTEMS	Manufacturer	Best-selling products
Stainless steel grill		
	Profilitec	Grill drain
	Schlüter <sup>®</sup> -Systems	Kerdi-Line-H
	Dural	BASIC-LINE
	Wedi	Riolito exclusiv, Level 3
Grill with tile compartment		
	Profilitec	Tile grill drain
	Schlüter <sup>®</sup> -Systems	Kerdi-Line-D
	Dural	TI-LINE
	Wedi	Riolito shower base
Shower base system		
	Schlüter®-Systems	Kerdi-Shower
	Dural	TILUX
	Wedi	Fundo Primo / Plano
	Rare	Ad Hoc

WALL/FLOOR AND INNER CORNER	Manufacturer	Best-selling products
Bullnose		
1	Profilitec	BA Bullnose
	Progress Profiles	Bullnose 40
	Profilpas	Metal Line
	Dural	Construct
Bullnose profile		
	Profilitec	BT bullnose
	Progress Profiles	Prointer KL ALL
Minimum quarter round cove		
	Profilitec	Mosaitec CRM
	Progress Profiles	Proshell D ALL
	Profilpas	Proround/Proint
Quarter round cove		
	Profilitec	Coflex CR
	Progress Profiles	Proshell R ALL
	Profilpas	Proround/Proint
Obtuse angle profiles		
	Profilitec	Sanitec SB
	Schlüter <sup>®</sup> -Systems	ECK-KHK
2	Progress Profiles	Proseal
	Profilpas	Saniboard
	Dural	Duracove
Right angle profiles		
	Schlüter <sup>®</sup> -Systems	ECK-KI
	Progress Profiles	Probat
	Profilpas	Saniboard

PROGRESS PROFILES

PROFILPAS

DURAL

www.progressplast.com

www.profilpas.com

www.dural.de/en

EXPANSION JOINTS	Manufacturer	Best-selling products	STEPS AND OUTER CORNERS	Manufacturer	Best-selling products
loor joints			Profiles for protruding steps		
	Profilitec	Coflex CA		Profilitec	Stairtec FL
	Schlüter <sup>®</sup> -Systems	Dilex-BWS		Schlüter <sup>®</sup> -Systems	Rondec
	Progress Profiles	Proflex			
	Profilpas	NTA/NTI		Progress profiles	Prostyle KL10
	Dural	Duraflex		Profilpas	Prostep
Perimeter joints			Reinforced profiles for steps		
	Profilitec	Coflex CAJP		Schlüter <sup>®</sup> -Systems	TREP-E
	Schlüter®-Systems	Dilex-BWA			
	Progress Profiles	Proflex 5 PR		Profilpas	Prostep SMA
	Profilpas	NJ		Dural	Diamondeton
	Dural	Duraflex SF		Durai	Diamondstep
			Rounded profiles with non-slip tread		
URMOUNTED ELEMENTS		Best-selling		Profilitec	Stairtec FO
ND COVERING PROFILES	Manufacturer	products		Schlüter®-Systems	TREP-GK
	Profilitec	Ramptec ZRR		Progress Profiles	Prostair KL 20
	Schlüter <sup>®</sup> -Systems	Reno-U		Profilpas	Prostep
<u> </u>	Progress Profiles	Proslider KL ALL	Rounded profile		
				Profilitec	Roundjolly RJ
irmounted element	Profilpas	Pronivel	D	Schlüter®-Systems	Rondec
imounted element	Profilitec	Variotec DK		Progress Profiles	Projolly Quart
	Schlüter <sup>®</sup> -Systems	Reno-T		Profilpas	Protrim
$\sim$	Progress Profiles	Profloor 24	Straight edge profile		
	Profilpas	Prolevel		Profilitec	Squarejolly SJ
	Dural	LPTE		Schlüter <sup>®</sup> -Systems	Quadec
raight edge covering profile				Progress Profiles	Projolly Square
_	Profilitec	Squarejolly SJ		Profilpas	Proangle Q
-	Schlüter®-Systems	Quadec		Dural	Squareline
	Progress Profiles	Projolly Square	Thin corner profile		
	Profilpas	Proangle Q		Drofiltor	Mossister DIF
	Dural	Squareline		Profiltec	Mosaictec RJF
ounded edge covering profile				Progress Profiles	Prokerlam LINE
	Profilitec	Roundjolly RJ		Profilpas	Probord IPA
5	Schlüter®-Systems	Rondec	Corpor profiles		
	Progress Profiles	Projolly Quart	Corner profiles	Profilitec	Stairtec SE
	Profilpas	Protrim		Schlüter <sup>®</sup> -Systems	ECK-K
	1			Progress Profiles	Proedge
				Profilpas	Procorner
URVED PROFILES	Manufacturer	Best-selling products		Dural	Duragard

SURMOUNTED ELEMENTS AND COVERING PROFILES	Manufacturer	Best-selling products
Connection		
	Profilitec	Ramptec ZRR
	Schlüter <sup>®</sup> -Systems	Reno-U
	Progress Profiles	Proslider KL ALL
	Profilpas	Pronivel
Surmounted element		
	Profilitec	Variotec DK
	Schlüter <sup>®</sup> -Systems	Reno-T
	Progress Profiles	Profloor 24
	Profilpas	Prolevel
	Dural	LPTE
Straight edge covering profile		
	Profilitec	Squarejolly SJ
-	Schlüter <sup>®</sup> -Systems	Quadec
	Progress Profiles	Projolly Square
	Profilpas	Proangle Q
	Dural	Squareline
Rounded edge covering profile		
	Profilitec	Roundjolly RJ
5	Schlüter®-Systems	Rondec
	Progress Profiles	Projolly Quart
	Profilpas	Protrim

CURVED PROFILES	Manufacturer	Best-selling products
Metal profile for curves		
	Profilitec	Trimtec TR
	Schlüter <sup>®</sup> -Systems	Schiene
TUTTUN	Progress Profiles	Proterminal
	Profilpas	Proflex Line
	Dural	Z-FLEX

## Making corners during installation

### 7.1 - Solution 1



You can obtain "handmade" corner finishes with an attractive appearance and without using corner profiles.



1 - KERLITE or KERLITE PLUS slabs.



2 - Provide a 45° cut on the inner edge of the slab with an angle grinder or cutter.



5 - Lay the second slab using 1 mm spacer crosses.



**3** - Spread adhesive on the support.

on the edge with a cutter.



9 - Remove excess grout with a sponge 10 - The corner is now ready. moistened in warm water and alcohol (\*).



4 - Lay the first slab.

6 - Let the adhesive cure. Provide a 45° cut 7 - Smoothen the edge with an abrasive 8 - Apply epoxy grout with a trowel (\*). sponge.



### 7.2 - Solution 2





**1** - KERLITE or KERLITE PLUS slabs.





crosses







7 - After grout has cured, provide a 45° cut with an angle grinder (\*).

sponge.

24



**8** - Smoothen the edge with an abrasive **9** - The corner is now ready.



(\*) To perform this operation, strictly follow the instructions provided by the epoxy grout manufacturer.

## 8.1 - Technical characteristics

	TECHNICAL CHARACTERISTICS							
	Technical characteristic	Test m	ethod	Required value EN 14411 - G / ISO 13006 - G Group, Bla-UGL	KERLITE values	KERLITE PLUS values		
	Water absorption (E)	ISO 10	)545-3	≤ 0.5%	≤ 0.1%	≤ 0.1%*		
	Bending strength	ISO 10	)545-4	≥ 35 N/mm²	≥ 35 N/mm²	≥ 120 N/mm <sup>2</sup> **		
	Breaking strength	ISO 10	)545-4	≥ 700 N	Not required Wall tiles	≥ 1000 N**		
٥	Deep abrasion resistance	ISO 10	)545-6	≤ 175 mm³	Compliant	Compliant		
	Compression strength			lso makes no provision for this test	Not required Wall tiles	≥ 400 N/mm <sup>2</sup>		
	Linear thermal expansion	ISO 10545-8		lso makes no provision for this test	$\alpha \leq 7 \cdot 10^{-6}  ^\circ C^{-1}$	$\alpha \le 7.10^{-6}  {}^{\circ}C^{-1}$		
	Thermal shock resistance	ISO 10545-9		lso makes no provision for this test	Resistant	Resistant		
	Frost resistance	ISO 10545-12		No alteration	Resistant	Resistant		
	Chemical resistance	ISO 10	545-13	As indicated by manufacturer	ULA - UHA (resistant)	ULA - UHA (resistant)		
~	Household chemicals resistance	ISO 10	545-13	UB min	UA (resistant)	UA (resistant)		
*	Stain resistance	ISO 10	545-14	Class 3 min.	5 (resistant)	5 (resistant)		
		Length and width		± 0.6%	± 0.6%	± 0.6%		
		Straightness of sides		± 0.5%	± 0.2%	± 0.2%		
	Dimensions	Rectangularity	ISO 10545-2	± 0.6%	± 0.2%	± 0.2%		
		Flatness		± 0.5%	± 0.5%	± 0.5%		
		Thickness		± 5%	± 5%	± 5%		

\* Value refers to ceramic material

\*\* Value refers to complete piece (slab and reinforcement)

			SLIP RESISTANCE		
	Safety requirements	Test method	Reference requirement	KERLITE values	KERLITE PLUS values
K	Dynamic friction coefficient	B.C.R.	>0,40 L. 13/89 - D.M. 236/89 D. Lgs. 503/96	Not required Wall tiles	>0,40 leather-dry / rubber-wet (excluding Over)
K	Classic stress	DIN 51130	R9 6°≤α≤10° R11 19°≤α≤27°	Not required	R9 (excluding Over) R11 (Geoquartz)
	Slip resistance	DIN 51097	Class B (A+B) (18 ≤ α < 24°)	Wall tiles	Class B (A+B) (Geoquartz)

FIRE REACTION						
	Safety requirements	Test method	Reference requirement	KERLITE values	KERLITE PLUS values	
WALL INSTALLATION						
	Fire reaction	ISO DIS 1182.2	Italian standard M.D. 14/01/85 M.D. 15/03/05	Class 0	Class 1	
	Fire reaction	UNI EN 13823:2005	European standard Directive 89/106/CE Decision 2000/147/CE UNI EN 13501-1:2005	Class A1	Class A2 - s1,d0	
FLOOR INSTALLATION	N					
	Fire reaction	ISO DIS 1182.2	Italian standard M.D. 14/01/85 M.D. 15/03/05	Class 0	Class 1	
	Fire reaction	UNI EN 13823:2005	European standard Directive 89/106/CE Decision 2000/147/CE UNI EN 13501-1:2005	Class A1 <sub>fl</sub>	Class A2 <sub>fl</sub> - s1	

	THE	RMAL CHARACTERISTICS		
	Safety requirements	Test method	KERLITE values	KERLITE PLUS values
<u>+ + +</u>	Thermal conductivity	UNI EN 12524:2001	$\lambda = 1.3 \text{ W/m}^{\circ}\text{k}$ $\lambda = 1.1 \text{ kcal/m h}^{\circ}\text{C}$	$\lambda = 1.3 \text{ W/m}^{\circ}\text{k}$ $\lambda = 1.1 \text{ kcal/m h}^{\circ}\text{C}$

	PHYSICAL-MECHANICAL CHARACTERISTICS									
	Safety requirements	Test method	KERLITE values	KERLITE PLUS values						
<u>+ →</u> + →	Elastic modulus (Young's Modulus)	-	55 - 60 GPa	55 - 60 GPa						
i	Density	-	2300 -2500 kg/m <sup>3</sup>	2300 -2500 kg/m <sup>3</sup>						
Le la	Sound absorption coefficient a	UNI EN ISO 11654	0.01 - 0.02	0.01 - 0.02						

## 8.1 - Technical characteristics

			TECH	INICAL CHARACTERISTICS	5		
	Technical characteristic	Test m	ethod	ANSI 137.1 Required value for unglazed porcelain tiles P1 Class	KERLITE values	KERLITE PLUS values	
	Water absorption (E)	ASTM	C373	≤ 0.5% (Fully vitrified)	Compliant	Compliant (*)	
	Breaking strength (S)	ASTM	I C648	≥ 250 lbf	Not required: Wall Tiles	Compliant (**)	
Ċ	Deep abrasion resistance	ASTM	C1243	≤ 175 mm³	Compliant	Compliant	
	Compression strength		-	Ansi makes no provision for this test	≥ 56000 PSI	≥ 56000 PSI	
	Linear thermal expansion	ASTM	I C372	Not required	α ≤ 8 X 10 <sup>6</sup> °C <sup>1</sup> α ≤ 4.4 X 10 <sup>6</sup> °F <sup>-1</sup>	α ≤ 8 X 10 <sup>6</sup> °C <sup>-1</sup> α ≤ 4.4 X 10 <sup>6</sup> °F <sup>-1</sup>	
	Thermal shock resistance	ASTM C484		Not alteration	Resistant	Resistant	
	Frost-resistance	ASTM C1026		Not required	Resistant	Resistant	
~	Chemical resistance	ASTM	I C650	Not required	Resistant	Resistant	
ţ	Bond strength			≥ 50 PSI	Compliant	Compliant	
<b>3</b>	Stain resistance	ASTM	C1378	Not required	Resistant	Resistant	
		Warpage edge	ASTM C485	± 0.40% or max ± 0.05 inch for tiles up to 24"x24" or max ± 0.07 inch for tiles larger to 24"x24"	Compliant	Compliant	
		Warpage diagonal	ASTM C485	± 0.40% or max ± 0.07 inch	Compliant	Compliant	
	Dimensions	Nominal sizes	ASTM C499	- 3.0% / + 2.0% of nominal dimensions	± 0.5%	± 0.5%	
		Caliber range	ASTM C499	± 0.25% or max ± 0.03 inch	Compliant	Compliant	
		Thickness	ASTM C499	≤ 0.040 inch	≤ 0.030 inch	≤ 0.030 inch	
		Wedging	ASTM C502	± 0.25% or max ± 0.03 inch	Compliant	Compliant	

			SLIP RESISTANCE			
	Safety requirements Test method		Reference requirement	KERLITE values	KERLITE PLUS values	
K	Static coefficient of friction (SCOF)	ASTM C 1028	SCOF < 0.50 questionable 0.50 ≤ SCOF < 0.60 conditionally slip resistant SCOF ≥ 0.60 slip resistant	Not required Wall tiles	Refer to specific collection catalogue	
X	Dynamic coefficient of friction (DCOF)	ANSI 137.1: PAR. 6.2.2.1.10 (BOT 3000)	DCOF > 0.42 (wet internal spaces)	Not required Wall tiles	Refer to specific collection catalogue	

	THERMAL CHARACTERISTICS									
	Safety requirements	Test method	KERLITE values	KERLITE PLUS values						
<u>+ + +</u> + + +	Thermal conductivity	UNI EN 12524:2001	λ = 0.7 Btu/ft h°F	$\lambda = 0.7$ Btu/ft h°F						

\* Value referred to ceramic material only.

\*\* Value referred to the all-in-one piece (slab and fiberglass mesh).

## 8.2 - Texts for tenders

Title	Description
Thickness	KERLITE 3MM: 3 mm.
	KERLITE PLUS: 3,5 mm.
Sizes	KERLITE 3MM: cm. 100x300 - 100x100 - 40x100 - 4,9x100 - 33,3x100 - 50x50 - Trilogy 40x100 - Stripes 40x100
	KERLITE PLUS: cm. 100x300 - 100x100 - 50x100 - 33,3x100 - 50x50 - 20x150 - 14,3x100 - 33,3x33,3
Series and colours	COLORS: LAKE, SAND, SNOW, STEEL, SMOKE, NIGHT
	ELEGANCE: VIA TORNABUONI, VIA CONDOTTI, VIA MONTENAPOLEONE, VIA FARINI
	BUXY: CORAIL BLANC, AMANDE, CARAMEL, CENDRE, NOISETTE, PERLE, CARBON
	BLUESTONE AVANTGARDE: BLUESTONE, PIETRA D'IRLANDA, PIETRA CHIARA
	OVER: LOFT, OFFICE, OPENSPACE, ROAD
	OAKS: POLAR, FOSSIL, LAND, RAIN, TIMBER
	BLACK-WHITE: BLACK, WHITE, ULTRAWHITE
	GEOQUARTZ: DOVER, SINAI, ETNA
	STYLING: SPACE, MOOD, GLAM, VOGUE, STAR, RIVER, DESERT, CORAL
	EXEDRA: CALACATTA, ESTREMOZ, MARFIL, TRAVERTINO, PULPIS, AMADEUS
Type of surface	Unglazed (UGL)
Shaping method	Pressing
Water absorption in accordance to EN ISO 10545.3	≤ 0,5%
Classification in accordance to EN 14411/ISO 13006	Group Bla
Reference specifications for first grade product in accordance to EN 14411/ISO 13006	EN 14411/ISO 13006 Appendix G
Performance classification in accordance to	EN - ISO – DIN - BCRA
Declared safety features	Slip resistance • Method BCRA: > 0,40 (leather-dry / rubber-wet) (excluding the Over serie) • Method DIN 51130: R9 (excluding the Over serie) / R11 (serie Geoquartz) • Method DIN 51097: class C (A+B+C) (serie Geoquartz)
	Release of toxic/harmful substances ISO 10545.15 - none
	Fire reaction, Italy (DM 14/01/85, DM 15/03/05, method ISO/DIS 1182.2) • KERLITE 3MM: class 0 • KERLITE PLUS: class 1
	Fire reaction, European Union (Dir. 89/106/CE, Dec. 2000/147CE, UNI EN 13501-1:2005, method UNI EN 13823:2005) KERLITE 3MM: class A1 (walls), class A1 <sub>fl</sub> (floors) KERLITE PLUS: class A2-s1,D0 (walls), class A2 <sub>fl</sub> - s1 (floors)
Data for the technical chart	New ceramic mineral produced in 300x100 cm slabs of porcelain stoneware, obtained using raw materials of high quality and purity (light clay, feldspar fluxes and ceramic pigments with a high chromatic performance). After wet milling, the mixture is coloured and spray dried, then pressed by compacting on a belt with a force of 15,000 tons and fired at a temperature of 1200°C.

## 8.3 - Packages

Slizes (cm.)	pieces/boxes	sq.mt./boxes	kg/boxes	boxes/pallet	sq.mt./pallet	kg/pallet
100x300x0,35 KERLITE PLUS	-	-	-	12 pz.	36	280,8
100x300x0,3 KERLITE 3 MM	-	-	-	13 pz.	39	288,6
100x100x0,35 KERLITE PLUS	3	3	23,4	25 pz.	75	585
100x100x0,3 KERLITE 3 MM	3	3	22,2	25 pz.	75	555
20x150x0,35 KERLITE PLUS	5	1,5	12,8	40	60	512
50x100x0,35 KERLITE PLUS	5	2,5	20	32	80	640
40x100x0,3 KERLITE 3 MM	5	2	14,2	35	70	497
40x100x0,3 Trilogy KERLITE 3 MM	4	1,6	11,2	15	24	168
40x100x0,3 Stripes KERLITE 3 MM	1	0,4	2,8	80	32	224
33,3x100x0,3 KERLITE 3 MM	5	1,665	12,5	35	58,275	425,25
33,3x100x0,35 KERLITE PLUS	5	1,665	12,98	35	58,275	425,30
50x50x0,35 KERLITE PLUS	7	1,75	13,65	48	84	655,2
50x50x0,3 KERLITE 3 MM	8	2	14,8	48	96	710,4
14,3x100x0,35 KERLITE PLUS	10	1,43	12	40	57,2	480
4,9x100x0,3 KERLITE 3 MM	10	0,490	3,9	39	19,11	152,1
33,3x33,3x0,35 KERLITE PLUS	7	0,776	6,22	96	74,51	597,17

The companies mentioned in this manual are our own choices and are therefore recommended but not an obligatory choice.

#### Adhesives

#### MAPEI S.p.A.

Via Cafiero 22 20158 (MI) - Italia Tel. +39 02 37673 www.mapei.it

#### **KERAKOLL S.p.A**

Via dell'Artigianato, 9 41049 Sassuolo (MO) - Italia Tel. +39 0536 811516 www.kerakoll.com

#### LATICRETE S.r.I.

Piazza Martiri, 7 19020 Brugnato (SP) - Italia Tel. +39 0187 897470 Fax +39 0187 896881 e-mail info@laticrete.it www.laticrete.it

#### LITOKOL S.p.A

Via G. Falcone, 13/1 42048 Rubiera (RE) - Italia Tel. +39 0522 622811 Fax. +39 0522 620150 e-mail info@litokol.it www.litokol.it

#### SAINT-GOBAIN / WEBER S.p.A

Via Sacco e Vanzetti, 54 41042 Fiorano Modenese (MO) - Italia Tel. +39 0536 837111 e-mail info@netweber.it www.netweber.it

#### **PCI - BASF Construction** Chemicals Italia S.p.A

Via Vicinale delle corti, 21 31100 Treviso (TV) - Italia Tel. +39 0422 304251 e-mail vittorio.rossi@basf.com www.basf-cc.it

#### ARDEX S.r.I

Via Alessandro Volta, 73 (Località Pigna) 25015 Desenzano del Garda - Italia Tel. +39 0309 119952 www.ardex.it

#### **Profiles and trim pieces**

#### **PROFILITEC S.p.A.**

Via Brescia, 43 36040 Torri di Quartesolo (VI) - Italia Tel. +39 0444 268311 Fax +39 0444 268310 www.profilitec.com

#### SCHLÜTER-SYSTEMS Italia S.r.l.

Via Bucciardi 31/33 41042 Fiorano Modenese (MO) Tel. +39 0536 914511 Fax +39 0536 911156 www.schlueter.it

#### PROGRESS PROFILES S.p.A.

Via dell'Artigianato, 35/37 31011 Asolo (TV) - Italia Tel. +39 0423 950398 Fax +39 0423 950979 www.progressprofiles.com

#### PROFILPAS S.p.A.

Via Einstein, 38 35010 Cadoneghe (PD) - Italia Tel. +39 049 8878411 Fax +39 049 706692 www.profilpas.com

#### DURAL GmbH & Co.

Via Oberdan, 11 40126 Bologna (BO) - Italia Tel. +39 051 0971513 Fax +39 051 0971513 www.dural.com

#### WEDI ITALIA S.r.l.

Via Redipuglia, 32 20035 Lissone (MI) - Italia Tel. +39 0392 459420 www.wedi.it

#### RARE S.r.I

Via delle Brughiere, 12 21050 Cairate (VA) - Italia Tel. +39 0331 360360 Fax +39 0331 360168 www.rareboxdoccia.com

#### Tile cutters / Glass cutters Abrasive sponges

#### **BOHLE ITALIA S.r.I.**

Via Cavallotti, 28 20081 Abbiategrasso (MI) - Italia Tel. +39 02 94967790 Fax +39 02 94609011 e-mail Italia@Bohle.de

#### WÜRTH S.r.l.

Via Stazione, 51 39044 Egna (BZ) - Italia Tel. +39 06 90779001 Fax +39 06 90386201 e-mail clienti@wuerth.it

#### Tile cutter rulers

SIGMA S.n.c. Via A. Gagliani, 4 47813 Igea Marina Bellaria (RN) - Italia Tel. +39 0541 330103 Fax +39 0541 330422 e-mail info@sigmaitalia.com

#### RAIMONDI S.r.I.

Via dei tipografi, 11 41100 Modena (MO) - Italia Tel. +39 059 280888 Fax +39 059 282808 www.raimondiutensili.it

#### Detergents

MAPEI S.p.A. Via Cafiero 22 20158 (MI) - Italia Tel. +39 02 37673 www.mapei.it

#### FABERCHIMICA S.r.l.

via G. Ceresani, 10 - Località Campo d'Olmo 60044 Fabriano (AN) - Italia Tel. +39 0732 627178 www.faberchimica.com

#### FILA Industria Chimica S.p.A.

via Garibaldi, 32 35018 S. Martino dei Lupari (PD) - Italia Tel. +39 049 9467300 www.filachim.it

#### Detergents

ZEP Italia S.r.l. via Nettunese, Km 25,000 04011 Aprilia (LT) - Italia Tel. +39 06 926691 www.zepitalia.it

#### JOHNSONDIVERSEY S.p.A.

via Meucci, 40 20128 Milano - Italia Tel. +39 0373 2051 www.johnsondiversey.com

#### KITER S.r.l.

via Assiano, 7/B 20019 Settimo Milanese (MI) - Italia Tel. +39 02 3285220 www.kiter.it

#### GEAL S.r.l.

via Settola, 121 51031 Agliana (PT) - Italia Tel. +39 0574 750365 www.geal-chim.it

#### FEDERCHEMICALS S.r.l.

via G. Borsi, 2 25128 - Brescia - Italia Tel. +39 030 3390880 Fax +39 030 3385580 www.federchemicals.it

#### LITHOFIN-Producte GmbH

Postfach 1134, D-73236 Wendlingen (D) Tel. 0049 07024/940320 www.lithofin.de Vertrieb für Österreich: CT-Austria Ges.m.b.H. A-1230 Wien Tel. +43 01 8673434

#### HMK - MÖLLER-CHEMIE

Benelux GmbH - Linge 4 NL-2105 WB Heemstede (NL) Tel. +31 0252 220222 www.moellerchemie.de

#### BONASYSTEMS ITALIA S.r.I.

Via Borgo S. Chiara, 29 30020 Torre di Mosto (VE) - Italia Tel. +39 0421 325691 Fax +39 0421 324232 www.bonasystemsitalia.it

#### Notched and rubber co

#### RAIMONDI S.r.I.

Via dei tipografi, 11 41100 Modena (MO) - I Tel. +39 059 280888 Fax +39 059 282808 www.raimondiutensili.it

#### Plaster

#### FASSA BORTOLO S.p.A

via Lazzaris, 3 31027 Spresiano (TV) -Tel. +39 0422 7222 Fax +39 0422 887509 www.fassabortolo.com

#### GRIGOLIN S.p.A.

Via IV Novembre, 18 31010 Ponte della Priula Tel. +39 0438 4461 Fax +39 0438 445110 www.gruppogrigolin.it

#### Cutting discs / diame discs / Drill bits

#### DIAMANT CENTER - TYROLIT S.r.I.

Via Valle d'Aosta, 12 41049 Sassuolo (MO) - Italia Tel. +39 0536 808166 Fax +39 0536 808211 www.diamantcenter.it

#### MONTOLIT S.p.A.

Via Turconi, 25 21050 Cantello (VA) - Italia Tel. +39 0332 419211/417744 e-mail info@montolit.com www.montolit.com

#### RAIMONDI S.r.I.

Via dei tipografi, 11 41100 Modena (MO) - Italia Tel. +39 059 280888 Fax +39 059 282808 www.raimondiutensili.it

coated trowels	Cutting discs / diamond and abrasive discs / Drill bits
Italia t	<b>RUBI ITALIA S.r.I.</b> Via Radici in Piano, 596/A 41049 Sassuolo (MO) - Italia Tel. +39 0536 810984 Fax +39 0536 810987 <i>e-mail rubitalia@rubi.com</i>
<b>A.</b> Italia	WÜRTH S.r.I. Via Stazione, 51 39044 Egna (BZ) - Italia Tel. +39 06 90779001 Fax +39 06 90386201 <i>e-mail clienti@wuerth.it</i>
	Decoupling mats, acoustic, etc.
la (TV) - Italia	SCHLÜTER-SYSTEMS Italia S.r.I. Via Bucciardi 31/33 41042 Fiorano Modenese (MO) Tel. +39 0536 914511 Fax +39 0536 911156 www.schlueter.it
nond and abrasive	GUTJAHR Systemtechnik GmbH Philipp-Reis-Str. 5-7 D-64404 Bickenbach/Bergstraße
YROLIT S.r.l.	Tel. +49 0 62 57 - 93 06-0 Fax +49 0 62 57 - 93 06-31

www.gutjahr.com

### **Adhesives attachment**



It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

As a general rule that applies for all building materials to be secured in place with adhesive, there is no universal adhesive for installing KERLITE on all kinds of surface.

Since it is not possible to describe all possible cases, we have provided information about the most common situations. First of all, we have divided installation cases into "walls" and "floors" and then into "interior" and "exterior". Depending on the rated stress, on any work to be performed subsequently and on the maximum dimension of the slab, we have assigned a certain type of KERLITE to each category. Starting from this classification, we have thus examined the most common kinds of supporting material. The resulting chart has been sent to all main manufacturers of adhesive that have, in turn, provided the most suitable product for each category.

Please note that all solutions suggested have been submitted by adhesive manufacturers, who guarantee the indications given. For explanations or more information, contact the respect manufacturers (see "9 - Handy addresses").

It is essential to follow all instructions given by adhesive manufacturers. This applies in particular to waiting time running before a surface can be walked on or grouted and the "Ready to use" time shown in the following tables.

### Wall installation

	In situations where holes and cuts		Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 36
	are NOT necessary and with sizes	<b>(ERLITE</b>	Concrete, old ceramic tile, marble, stone	Page 37
	up to 100 x 100 cm.		Particle board, metal	Page 38
		PLUS	Two-coat plaster, gypsum plaster, plasterboard, fibre cement panels	Page 39
Interiors	In situations where holes and cuts are necessary.	<b>KERLITE P</b>	Concrete, old ceramic tile, marble, stone	Page 40
		KER	Particle board, metal	Page 41
	In situations where holes and cuts are <b>NOT</b> necessary and with sizes up to 100 x 100 cm.		Plaster	Page 42
			Concrete	Page 43
Exteriors	In situations where holes and cuts are necessary and/or for large sizes.		Plaster	Page 44
			Concrete	Page 45



### **Floor installation**

	In any situation with the exception of areas subject to	KERLITE PLUS	Cement-based screeds, calcium sulphate-based or heated screeds, self- levelling products, concrete, old ceramic tile, marble slabs, stone	Page 46
Interiors	heavy loads (e.g. trolleys with hard wheels).		Wood, PVC, rubber, linoleum, metal, resin	Page 47
	Upon condition that surfaces are sheltered (e.g. loggias, covered	<b>KERLITE PLUS</b>	Cement-based screeds, calcium sulphate-based or heated screeds, self- levelling products, concrete, old ceramic tile, marble slabs, stone	Page 46
Exteriors	balconies, etc.) and made totally impervious.		Wood, PVC, rubber, linoleum, metal, resin	Page 47

How to	How to read the <b>attachment</b>										
At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)	
01	02	03	04	05	06	07	08	09	10	11	

- **01**\_ The installation supervisor must examine the conditions of the work site to choose between a normal setting adhesive or a guick setting adhesive.
- **02**\_ Adhesive manufacturers.
- **03**\_ Depending on the adhesive recommended by the manufacturer, you will find the size in cm of the slab.
- **04**\_ List of adhesives recommended by manufacturers based on the intended use and size of the slabs.
- **05** List of primers to use before adhesive application, as indicated by manufacturers for each intended use.
- **06**\_ The mixing ratio refers to a single product unit (a bag, a can, etc.), in order to obtain the characteristics declared by manufacturers. 07\_ The adhesive's class under the UNI EN 12004 standard is indicated. (see "About ADHESIVES" below).
- **08** You will find an indication of how many square metres you can install with a single product unit prepared with the established mixing ratio.
- **09** You will find the time you must wait before treading on the surface to fill joints with grout.
- **10** You will find the time that must pass before using the floor, i.e. before it can go subject to static and/or dynamic stress.
- **11** You will find the installation method and features of the trowel to use for each adhesive.

About ADH
Adhesives are divided into THREE CLASSES, depending on their composition, as established
CEMENTITIOUS (C): mixture of hydraulic binding agents, aggregates and organic additives (note to
REACTIVE (R): mixture of synthetic resin, mineral fillers and organic additives, which harden due to
DISPERSION (D): mixture of binding and organic agents, namely polymers in aqueous dispersion, o
Depending on their features, adhesives are thus classified:
Class 1: normal setting
Class 2: improved setting properties
There are three additional classes:
Class <b>F</b> : quick setting adhesives
Class <b>T</b> : slip resistant adhesives
Class <b>E</b> : adhesives with extended open time
There is a fourth additional class for cementitious adhesives only: adhesives can be classifie standard:
Class S1: deformable adhesives
Class <b>S2</b> : highly deformable adhesives

#### ESIVES

d by the UNI EN 12004 standard:

be mixed with water or other liquid additive immediately before use)

a chemical reaction (note: these adhesives may have one or more components)

rganic additives and mineral fillers (note: ready-to-use mixtures)

as DEFORMABLE (S) and divided on the basis of test results under the UNI EN 12002

### A.1a - Interior wall installation of KERLITE



Supporting material: two-coat plaster, gypsum plaster, plasterboard, fibre cement panels.

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	_ 3			
		100x50	ULTRALITE S1	Compulsory for gypsum- based, anhydride	1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m <sup>2</sup>			
	MAPEI	100x100;	ULTRALITE S2	or absorbent surfaces: Primer G or ECOPRIM T	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6,3 m²	8 hours	14 days	
		300x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6,5 m²			
<del>,</del>		All circo	H40 Eco Flex	For gypsum-based	1 bag (25 kg) + 6.5 litres of water	C2 E	6 m <sup>2</sup>			
		All sizes	H40 Eco Tenaflex	surfaces: Primer A Eco	1 bag (25 kg) + 8 litres of water	C2 TE	5 m <sup>2</sup>			Installation with a
For situations in which a	KERAKOLL	for plasterboard	H40 Eco Ideal	Not necessary, according to	1 bag (25 kg) + 8.2 litres of water	C2 TE	5 m"	8 hours	7 days	double layer of adhesive
normal setting adhesives is		and fibre cement panel ONLY, all sizes	H40 Eco Extraflex	manufacturer	1 bag (25 kg) + 8 litres of water	C2 TE S1	6 m²			
recommended	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	14 days	
	LITOKOL	All sizes	SUPERFLEX K77	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 8.5 litres of water	C2 TE S1	6 m <sup>2</sup>	8 hours	14 days	
	PCI - BASF	All sizes	PCI NANOLIGHT	For gypsum-based surfaces:PCI GISOGRUND	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m²	8 hours	1 day	
	SAINT- GOBAIN /	All sizes	WEBER.COL PRO HP	For gypsum-based surfaces:	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m <sup>2</sup> 8 hours	8 hours	urs 14 days	
	WEBER	All Sizes	WEBER.COL PRO HF LIGHT	WEBER.PRIM PF15	1 bag (15 kg) + 8 litres of water	C2 TE S2	5111	onours	14 days	
	ARDEX	All sizes	ARDEX X 77 Microtec	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m <sup>2</sup>	8 hours	1 day	Installation with a single- layer of adhesive (6 mm trowel)
		50x50; 100x40; 100x50	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5.5 kg)	C2 F S1	6 m²		1 day	
			ULTRALITE S1 QUICK	COMPULSORY for gypsum- based, anhydride or absorbent	1 bag (15 kg) +	C2 FTE S1	3 hours	21		
	MAPEI		ULTRALITE S2 QUICK	ULTRALITE S2 Surfaces:	5.1/5.7 litres of water	C2 FE S2		3 nours		
		100x100; 300x100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m²	-		
Ô		All sizes	H40 Eco rapid	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 7.3 litres of water	C2F TE	5 m²			Installation with a
For situations in which a quick setting	KERAKOLL	For plasterboard and fibre cement panels only, all sizes	H40 Eco Rapidflex	Not necessary, according to manufacturer	1 bag (25 kg) + 6.3 litres of water	C2F TE S1	6 m²	3 hours	2 days	Installation with a double layer of adhesive
adhesive is recommended	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1	5 m²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m²	8 hours	1 day	
	ARDEX	All sizes	ARDEX X 77 S microtec	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 8.5 litres of water	C2 FT(T) E S1	10 m <sup>2</sup>	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)

Instructions provided directly by manufacturers, who guarantee the information given. (\*) For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".

Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. (\*\*) For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".

Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%. In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".

### A.1b - Wall installation of KERLITE in interiors

#### Supporting material: concrete, old ceramic tile, marble, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	72			
	MAPEI	100x50	ULTRALITE S1	If levelling is necessary, on the above mentioned supports, apply the	1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m <sup>2</sup>	0 hours	14 days	
	MAPEI	100x100;	ULTRALITE S2	following product beforehand ECOPRIM GRIP	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6,3 m²	8 hours	14 days	
		300x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6,5 m²			
Ţ	KERAKOLL	All sizes	H40 Eco Flex	Not necessary, according to	1 bag (25 kg) + 6.5 litres of water	C2 E	5 m <sup>2</sup>	8 hours	7 days	Installation with a
For situations	REINROLL	All 312C3	H40 Eco Tenaflex	manufacturer	1 bag (25 kg) + 8 litres of water	C2 TE	5111	onours	7 days	double layer of adhesive
in which a normal setting	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days	
adhesives is recommended	LITOKOL	All sizes	SUPERFLEX K77	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 litres of water	C2 TE S1	6 m²	8 hours	7 days	
	PCI - BASF	All sizes	PCI NANOLIGHT	On non-absorbent supports: PCI GISOGRUND 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m <sup>2</sup>	8 hours	1 day	
	SAINT- GOBAIN /	All sizes	WEBER.COL PRO HP	For old ceramic tile, marble slabs and stone:	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m <sup>2</sup>	8 hours	14 days	
	WEBER	All Sizes	WEBER.COL PRO HF LIGHT	WEBER.PRIM PF16	1 bag (15 kg) + 8 litres of water	C2 TE S2	5111	onours	14 days	
	ARDEX	All sizes	ARDEX X 77 Microtec	As an alternative for old ceramic tile, marble slabs and stone:- ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m²	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)
		50x50; 100x40; 100x50	GRANIRAPID	If levelling is necessary,	Component A: 1 bag (25 kg) Component B: tub (5.5 kg)	C2 F S1	6 m²			
	MAPEI		ULTRALITE S1 QUICK	on the above mentioned supports, apply the following product	1 bag (15 kg) + 5.1/5.7 litres of	C2 FTE S1		3 hours	1 day	
			ULTRALITE S2 QUICK	beforehand ECOPRIM GRIP	water	C2 FE S2	7 m <sup>2</sup>			
		100x100; 300x100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m²			Installation with a
	KERAKOLL	All sizes	H40 Eco rapid	Not necessary, according to manufacturer	1 bag (25 kg) + 7.3 litres of water	C2F TE	6 m²	3 hours	2 days	double layer of adhesive
For situations in which a quick setting adhesive is	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m²	6 hours	2 days	
recommended	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1	5 m²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT	On non-absorbent supports PCI GISOGRUND 303	1 bag (15 kg) + 9 litres of water	C2 TE 51	5,5 m²	8 hours	1 day	
	ARDEX	All sizes	ARDEX X 77 S microtec	As an alternative for old ceramic tile, marble slabs and stone: - ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 8.5 litres of water	C2 FT(T) E S1	10 m²	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)

Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")". (\*)

Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")". (\*\*)

(\*\*\*) Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%. In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".



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### A.1c - Wall installation of KERLITE in interiors



#### Supporting material: particle board, metal

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
	MAPEI	All sizes	KERALASTIC	Not necessary, according to	1 can (10 kg)	R2	3 m²	12 hours	7 days	
	MALE	All 312C3	KERALASTIC T	manufacturer	1 can (10 kg)	R2T	5111	12 110013	7 days	
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m²	12 hours	3 days	Installation with a
For situations in which a	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	7 days	double layer of adhesive
normal setting adhesives is	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	5 days	
recommended	PCI - BASF	All sizes	PCI NANOLIGHT	Use of the following product is compulsory: PCI GISOGRUN 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	3 m²	12 hours	2 days	Installation with a single- layer of adhesive (6 mm
	ARDEX	All sizes	ARDEX X 77 microtec	ARDEX P 82	1 bag (25 kg) + 11 litres of water		10 m²	8 hours	1 day	trowel)
	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT S2	7 m²	3 hours	1 day	Installation with a double layer of adhesive
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m²	12 hours	3 days	
For situations in which a	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	2 m <sup>2</sup>	1 day	7 days	Installation with a single layer of adhesive (6 mm trowel)
quick setting adhesive is recommended	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	5 days	Installation with a
	PCI - BASF	All sizes	PCI NANOLIGHT	Use of the following product is compulsory: PCI GISOGRUN 303	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m²	8 hours	1 day	double layer of adhesive
	ARDEX	All sizes	ARDEX X 77 S microtec	ARDEX P 82	1 bag (25 kg) + 8.5 litres of water	C2 FT(T) E S1	10 m²	90 min.	6 hours	Installation with a single- layer of adhesive (6 mm trowel)

### A.2a - Wall installation of KERLITE PLUS in interiors

### Supporting material: two-coat plaster, gypsum plaster, plasterboard, fibre cement panels

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)		
		50x50; 100x40;	KERAFLEX MAXI S1	COMPULSORY	1 bag (25 kg) + 7.2/7.7 litres of water	C2TE S1						
		100x50	ULTRALITE S1	for gypsum-based, anhydride or absorbent surfaces:	1 bag (15 kg) + 8.4/8.7 litres of water	C2TE S1	7 m²					
	MAPEI	100x100; 300x100	ULTRALITE S2	Primer G or ECOPRIM T	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6,3 m²	8 hours	14 days			
		1002100, 3002100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6,5 m²					
		All sizes	H40 Eco flex	For gypsum-based surfaces:	1 bag (25 kg) + 6.5 litres of water	C2 E						
		7 11 51205	H40 Eco tenaflex	Primer A Eco	1 bag (25 kg) + 8 litres of water	C2TE						
X	KERAKOLL	For gypsum- based plaster ONLY, all sizes	H40 Eco ideal	Not necessary, according to manufacturer	1 bag (25 kg) + 8.2 litres of water	C2 TE	5 m²	8 hours	7 days			
For situations in which a		for plasterboard and fibre cement panel ONLY, all sizes	H40 Eco Extraflex	Not necessary, according to manufacturer	1 bag (25 kg) + 7.5 litres of water	C2 TE S1				Installation with a double layer of adhesive		
normal setting adhesives is	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m <sup>2</sup>	1 day	7 days			
recommended	LITOKOL	50x50;100x40; 100x50	SUPERFLEX K77	For gypsum-based surfaces:	1 bag (25 kg) + 8.5 litres of water	C2TE S1	6 m²	8 hours	7 days			
	LITOKOL	100x100; 300x100	CEMENTKOL K21 + LATEXKOL	Primer C	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 S2	5 m²	onours	7 uays			
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m²	8 hours	1 day			
	SAINT-GOBAIN	All sizes	WEBER.COL PRO HP	For gypsum-based surfaces:	1 bag (25 kg) + 7 litres of water	C2TE S1	5 m <sup>2</sup>	2 days	14 days			
	/WEBER	All sizes	WEBER.COL PRO HF LIGHT	WEBER.PRIM PF15	1 bag (15 kg) + 8 litres of water	C2 TE S2	5 m	8 hours	14 days			
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	For gypsum-based surfaces:ARDEX P 51	1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2 T(T) E(E) S2	10 m²	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)		
		50x50; 100x40; 100x50	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5.5 kg)	C2 F S1	6 m²					
	MAPEI		ULTRALITE S1 QUICK	COMPULSORY for gypsum- based, anhydride or absorbent	1 bag (15 kg) + 5.1/5.7 litres of water	C2 FTE S1		3 hours	3 hours	- 3 hours	1 day	
		100 100	ULTRALITE S2 QUICK	surfaces: Primer G or ECOPRIM T	5.1/5.7 littes of water	C2 FE S2	7 m²					
		100×100; 300×100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m²					
Å		All sizes	H40 Eco rapid	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 7.3 litres of water	C2FTE	5 m²					
For situations in which a	KERAKOLL	for plasterboard and fibre cement panel ONLY, all sizes	H40 Eco Rapidflex	Not necessary, according to manufacturer	1 bag (25 kg) + 6.3 litres of water	C2FTE S1	6 m²	3 hours	2 days	Installation with a double layer of adhesive		
quick setting adhesive is recommended	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TE F	5 m²	6 hours	2 days			
	LITOKOL	50x50;100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1	5 m²	4 hours	1 day			
		100x100; 300x100	LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 FE S2						
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	For gypsum-based surfaces: PCI GISOGRUND	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m²	8 hours	1 day			
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	For gypsum-based surfaces: ARDEX P 51	1 bag (25 kg) + 3 kg of ARDEX E 90 + 6 litres of water	C2 FT(T) E S2	10 m <sup>2</sup>	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)		

Instructions provided directly by manufacturers, who guarantee the information given. (\*) For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".

Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. (\*\*) For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".

Ratings provided directly by manufacturers, who guarantee the information given, are based on laboratory tests performed at 23° C and with a relative humidity of 50%.

In the event of use in different situations or for explanations or more details, contact the technical support offices of the respective manufacturers (see "9 - handy addresses")".

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- Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the respective manufacturers (see "9 handy addresses")". (\*\*)
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### A.2b - Wall installation of KERLITE PLUS in interiors



#### Supporting material: concrete, old ceramic tile, marble, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)		
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1						
		100x50	ULTRALITE S1	If levelling is necessary, on the above mentioned	1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m <sup>2</sup>					
	MAPEI	100x100;	ULTRALITE S2	supports, apply the following product beforehand ECOPRIM GRIP	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6,3 m <sup>2</sup>	8 hours	14 days			
		300x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLA- STIC	C2 E S2	6,5 m²					
	KERAKOLL	All sizes	H40 Eco flex	Not necessary, according to manufacturer	1 bag (25 kg) + 6.5 litres of water	C2 E	5 m <sup>2</sup>	8 hours	7 days			
			H40 Eco tenaflex		1 bag (25 kg) + 8 litres of water	C2TE				Installation with a double layer of adhesive		
For situations	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m <sup>2</sup>	1 day	7 days			
in which a normal setting	LITOKOL	50x50;100x40; 100x50	SUPERFLEX K77	Not necessary, according to	1 bag (25 kg) + 8.5 litres of water	C2TE S1	6 m <sup>2</sup>	0 hours	7 dava			
adhesives is recommended	LITOROL	100x100; 300x100	CEMENTKOL K21 + LATEXKOL	manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 S2	5 m²	8 hours	7 days			
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	On non-absorbent supports PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m²	8 hours	1 day			
	SAINT-		WEBER.COL PRO HP	For old ceramic tile, marble	1 bag (25 kg) + 7 litres of water	C2TE S1		2 days				
	GOBAIN / WEBER	All sizes	WEBER.COL PRO HF LIGHT	slabs and stone: WEBER.PRIM PF16	1 bag (15 kg) + 8 litres of water	C2TE S2	5 m <sup>2</sup>	8 hours	14 days			
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	As an alternative for old ceramic tile, marble slabs and stone: - A 4 - X 77)	1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2 T(T) E(E) S2	10 m <sup>2</sup>	8 hours	1 day	Installation with a single layer of adhesive (6 mm trowel)		
		50x50; 100x40;	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5.5 kg)	C2 F 51	6 m <sup>2</sup>					
	MAPEI	100x50	ULTRALITE S1 QUICK	If levelling is necessary, on the above mentioned	1 bag (15 kg) + 5.1/5.7 litres of	C2 FTE S1		- 3 hours	- 3 hours	- 3 hours	1 day	
	MAP LI	100-100	ULTRALITE S2 QUICK	supports, apply ECOPRIM GRIP beforehand	water	C2 FE S2	7 m²	Shours	Tuay			
Ĉ		100x100; 300x100	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m²			Installation with a double		
For situations	KERAKOLL	All sizes	H40 Eco rapid	Not necessary, according to manufacturer	1 bag (25 kg) + 7.3 litres of water	C2FTE	6 m <sup>2</sup>	3 hours	2 days	layer of adhesive		
in which a quick setting adhesive is	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TE F	5 m²	6 hours	2 days			
recommended	LITOKOL	50x50;100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1	5 m²	4 hours	1 day			
		100x100; 300x100	LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 FE S2						
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	On non-absorbent supports PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m²	8 hours	1 day			
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	As an alternative for old ceramic tile, marble slabs and stone:- A 4 - X 77)	1 bag (25 kg) + 3 kg of ARDEX E 90 + 6 litres of water	C2 FT(T) E S2	10 m <sup>2</sup>	90 min.	6 hours	Installation with a single layer of adhesive (6 mm trowel)		

### A.2c - Wall installation of KERLITE PLUS in interiors

#### Supporting material: particle board, metal

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
	MAPEI	All sizes	KERALASTIC	Not necessary, according to	1 can (10 kg)	R2	3 m <sup>2</sup>	12 hours	7 days	Installation with a single- layer of adhesive (6 mm
		7 11 51205	KERALASTICT	manufacturer		R2T	5111	TETIOUIS	7 0035	trowel)
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m²	12 hours	3 days	
X	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	7 days	Installation with a
For situations in which a normal setting	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	5 days	double layer of adhesive
adhesives is recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Use of the following product is COMPULSORY: PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m²	8 hours	1 day	
	SAINT- GOBAIN / WEBER	All sizes	FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	3 m²	12 hours	2 days	Installation with a single-
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m²	8 hours	1 day	layer of adhesive (6 mm trowel)
	MAPEI	All sizes	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT S2	7 m²	3 hours	1 day	Installation with a single- layer of adhesive (6 mm trowel)
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m²	12 hours	3 days	
For situations	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m <sup>2</sup>	1 day	7 days	Installation with a
in which a quick setting adhesive is	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	12 hours	5 days	double layer of adhesive
recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Use of the following product is COMPULSORY: PCI GISOGRUN 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE 52	5,5 m²	8 hours	1 day	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg of ARDEX E 90 + 6 litres of water"	C2 F(F)T E S2	10 m <sup>2</sup>	90 min.	6 hours	Installation with a single- layer of adhesive (6 mm trowel)

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(\*\*) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses").

Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support offices of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy (\*\*\*) addresses").

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- (\*\*) tions or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses").
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Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explana-

### A.3a - Wall installation of KERLITE in exteriors



#### Supporting material: plaster

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	- 3			
		100x50	ULTRALITE S1	Not necessary, according to	1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m <sup>2</sup>			
	MAPEI		ULTRALITE S2	manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6,3 m <sup>2</sup>	8 hours	14 days	
		100x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLA- STIC	C2 E S2	6,5 m <sup>2</sup>			
		50x50	H40 Eco flex		1 bag (25 kg) + 6.5 litres of water	C2 E				
$\square$	KERAKOLL	30,30	H40 Eco tenaflex	Not necessary, according to manufacturer	1 bag (25 kg) + 8 litres of water	C2TE	5 m²	8 hours	7 days	
For situations		100x40; 100x50; 100x100	H40 Eco Extraflex		1 bag (25 kg) + 7.5 litres of water	C2TE S1				Installation with a double layer of adhesive
in which a normal setting adhesives is	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m²	1 day	7 days	double layer of adhesive
recommended		50x50; 100x40; 100x50	SUPERFLEX K77	Not necessary, according to	1 bag (25 kg) + 8.5 litres of water	C2TE S1	6 m <sup>2</sup>			
	LITOKOL	100x100	CEMENTKOL K21 + LATEXKOL	manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 S2	5 m <sup>2</sup>	8 hours	7 days	
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCINANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TE S1	5,5 m²	8 hours	1 day	
	SAINT- GOBAIN/	50x50; 100x40;	WEBER.COL PRO HP	Not necessary, according to	1 bag (25 kg) + 7 litres of water	C2TE S1	5 m <sup>2</sup>	2 days	14 days	
	WEBER	100x50; 100x100	WEBER.COL PRO HF LIGHT	manufacturer	1 bag (15 kg) + 8 litres of water	C2TE S2		8 hours	140093	
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2T(T) E(E) S1	10 m <sup>2</sup>	8 hours	1 day	
		50x50; 100x40; 100x50	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m <sup>2</sup>			
	MAPEI		ULTRALITE S1 QUICK	Not necessary, according to manufacturer	1 bag (15 kg) + 5.1/5.7 litres of	C2 FTE S1		3 hours	1 day	
			ULTRALITE S2 QUICK	manufacturer	water	C2 FE S2	7 m²			
		100x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT 52	5 m²			
		50x50	H40 Eco rapid	Not necessary, according to	1 bag (25 kg) + 7.3 litres of water	C2FTE	5 m <sup>2</sup>			
For situations in which a	KERAKOLL	100x40; 100x50; 100x100	H40 Eco Rapidflex	manufacturer	1 bag (25 kg) + 6.3 litres of water	C2FTE S1	6 m²	3 hours	2 days	Installation with a double layer of adhesive
quick setting adhesive is recommended	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TE F	5 m²	6 hours	2 days	
	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	Not necessary, according to manufacturer	1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1	. 5 m²	4 hours	1 day	
		100x100	LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 FE S2				
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCINANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TE S1	5,5 m²	8 hours	1 day	
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 S microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 litres of water	C2 FT(T) E S1	10 m²	90 min.	6 hours	

Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective (\*) manufacturers (see "9 - handy addresses").

(\*\*) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses").

Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support offices of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses")

### A.3b - Wall installation of KERLITE in exteriors

#### Supporting material: concrete

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)						
		50x50; 100x40;	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	2									
		100x50	ULTRALITE S1	Not necessary, according to	1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m²									
	MAPEI		ULTRALITE S2	manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6,3 m²	8 hours	14 days							
		100x100	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6,5 m²									
<del></del>		50-50	H40 Eco flex		1 bag (25 kg) + 6.5 litres of water	C2 E										
X	KERAKOLL	50x50	H40 Eco tenaflex	Not necessary, according to manufacturer	1 bag (25 kg) + 8 litres of water	C2TE	5 m²	8 hours	7 days							
For situations in which a		100x40; 100x50; 100x100	H40 Eco Extraflex		1 bag (25 kg) + 7.5 litres of water	C2TE S1				Installation with a double layer of adhesive						
normal setting adhesives is	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m²	1 day	7 days							
recommended	LITOKOL	50x50; 100x40; 100x50	SUPERFLEX K77	Not necessary, according to	1 bag (25 kg) + 8.5 litres of water	C2TE S1	6 m²	8 hours	7 days							
	EnonoL	100x100	CEMENTKOL K21 + LATEXKOL	manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 52	5 m <sup>2</sup>	onours	7 ddys							
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCI NANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2TE S1	5,5 m²	8 hours	1 day							
	SAINT- GOBAIN/	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO HP	Not necessary, according to	1 bag (25 kg) + 7 litres of water	C2TE S1	5 m²	2 days	14 days							
	WEBER	50x50; 100x40; 100x50; 100x100	WEBER.COL PRO HF LIGHT	manufacturer	1 bag (15 kg) + 8 litres of water	C2TE S2	5111	8 hours	14 uays							
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2T(T) E(E) S1	10 m <sup>2</sup>	8 hours	1 day							
		50x50; 100x40; 100x50	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m <sup>2</sup>									
	MAPEI		ULTRALITE S1 QUICK	Not necessary, according to	1 bag (15 kg) + 5.1/5.7 litres of water	C2 FTE S1		— 3 hours	— 3 hours	- 3 hours	3 hours	- 3 hours	– 3 hours	3 hours	1 day	
	100 2	100x100	ULTRALITE S2 QUICK	manufacturer	1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2	7 m²					ruuy				
		100x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT 52	5 m <sup>2</sup>									
	KERAKOLL	50x50	H40 Eco rapid	Not necessary, according to	1 bag (25 kg) + 7.3 litres of water	C2F TE	5 m²	3 hours	2 days							
For situations in which a quick setting	ILIU INOLL	100x40; 100x50; 100x100	H40 Eco Rapidflex	manufacturer	1 bag (25 kg) + 6.3 litres of water	C2FTE S1	6 m²	Shours	2 0095	Installation with a double layer of adhesive						
adhesive is recommended	LATICRETE	50x50; 100x40; 100x50; 100x100	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m²	6 hours	2 days							
	LITOKOL	50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water	Not necessary, according to manufacturer	1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1	5 m²	4 hours	1 day							
		100x100	LITOSTONE K99 + LATEXKOL		1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 FE S2										
	PCI - BASF	50x50; 100x40; 100x50; 100x100	PCINANOLIGHT	Not necessary, according to manufacturer	1 bag (15 kg) + 9 litres of water	C2 TE S1	5,5 m²	8 hours	1 day							
	ARDEX	50x50; 100x40; 100x50; 100x100	ARDEX X 77 S microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 litres of water	C2 FT(T) E S1	10 m <sup>2</sup>	90 min.	6 hours							

Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective (\*) manufacturers (see "9 - handy addresses").

(\*\*) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses").

Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support office of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy (\*\*\*) addresses").



### A.4a - Wall installation of KERLITE PLUS in exteriors



#### Supporting material: plaster

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		50x50; 100x40;	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2ES2	5 m²			
	MAPEI	100x50	ULTRALITE S2	Not necessary, according to manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E 52	3 m²	8 hours	14 days	
		100x100; 300x100	KERALASTIC T		1 can (10 kg)	R2T	2,5 m²	12 hours	7 days	
		50x50	H40 Eco flex		1 bag (25 kg) + 6.5 litres of water	C2 E	5 m <sup>2</sup>			
	KERAKOLL	50x50	H40 Eco tenaflex	Not necessary, according to manufacturer	1 bag (25 kg) + 8 litres of water	C2 TE	5111	approx. 8 hours	7 days	
		100x40; 100x50; 100x100; 300x100	H40 Eco Extraflex		1 bag (25 kg) + 7.5 litres of water	C2TE S1	6 m²			
For situations in which a	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m²	1 day	7 days	Installation with a double layer of adhesive
normal setting adhesives is	LITOKOL	All sizes	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 52	5 m²	8 hours	7 days	
recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE S2	5,5 m²	8 hours	1 day	
	SAINT-		WEBER.COL PRO HP	Not necessary, according to	1 bag (25 kg) + 7 litres of water	C2TE S1	- 2	2 days		
	GOBAIN / WEBER	All sizes	WEBER.COL PRO HF LIGHT	manufacturer	1 bag (15 kg) + 8 litres of water	C2TE S2	5 m²	8 hours	14 days	
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m <sup>2</sup>	8 hours	1 day	
		50x50; 100x40; 100x50	ULTRALITE S2 QUICK	Not necessary, according to	1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m²		2 days	
	MAPEI	100x100; 300x100	KERAQUICK + LATEX PLUS	manufacturer	1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT 52	5 m²	3 hours	1 day	
0		50x50	H40 Eco rapid	Not necessary, according to	1 bag (25 kg) + 7.3 litres of water	C2FTE	<i>с</i> 2	21		
	KERAKOLL	100x40; 100x50; 100x100; 300x100	H40 Eco Rapidflex	manufacturer	1 bag (25 kg) + 6.3 litres of water	C2FTE S1	6 m²	3 hours	2 days	
For situations in which a quick setting	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m²	6 hours	2 days	Installation with a double layer of adhesive
adhesive is recommended	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 FE S2	5 m²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2TE 52	5,5 m²	8 hours	1 day	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg of ARDEX E 90 + 6 litres of water	C2 FT(T) E S2	10 m <sup>2</sup>	90 min.	6 hours	

### A.4b - Wall installation of KERLITE PLUS in exteriors

#### Supporting material: concrete

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Workability (***)	Ready for use (***)	Installation (*)
		F0. F0. 100. 40.	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	5 m <sup>2</sup>			
	MAPEI	50x50; 100x40; 100x50	ULTRALITE S2	Not necessary, according to manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E 52	3 m²	8 hours	14 days	
		100x100; 300x100	KERALASTICT		1 can (10 kg)	R2T	2,5 m <sup>2</sup>	12 hours	7 days	
		50-50	H40 Eco flex		1 bag (25 kg) + 6.5 litres of water	C2 E				
	KERAKOLL	50x50	H40 Eco tenaflex	Not necessary, according to manufacturer	1 bag (25 kg) + 8 litres of water	C2TE	5 m <sup>2</sup>	8 hours	7 days	
		100x40; 100x50; 100x100; 300x100	H40 Eco Extraflex		1 bag (25 kg) + 7.5 litres of water	C2TE S1				
For situations in which a	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2TE S1	5 m <sup>2</sup>	1 day	7 days	Installation with a double layer of adhesive
normal setting adhesives is	LITOKOL	All sizes	CEMENTKOL K21 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 52	5 m <sup>2</sup>	8 hours	7 days	
recommended	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 6 litres of water	C2TE S2	5,5 m²	8 hours	1 day	
	SAINT-		WEBER.COL PRO HP	Not necessary, according to	1 bag (25 kg) + 7 litres of water	C2TE S1	- 2	2 days		
	GOBAIN / WEBER	All sizes	WEBER.COL PRO HF LIGHT	manufacturer	1 bag (15 kg) + 8 litres of water	C2 TE S2	5 m <sup>2</sup>	8 hours	14 days	
	ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2T(T) E(E) S2	10 m <sup>2</sup>	8 hours	1 day	
		50x50; 100x40; 100x50	ULTRALITE S2 QUICK		1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m <sup>2</sup>		2 days	
	MAPEI	100x100; 300x100	KERAQUICK + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT S2	5 m²	3 hours	1 day	
~	KERAKOLL	50x50	H40 Eco rapid	Not necessary, according to	1 bag (25 kg) + 7.3 litres of water	C2F TE	6 m²	2 hours	2 days	
	KERAKULL	100x40; 100x50; 100x100; 300x100	H40 Eco Rapidflex	manufacturer	1 bag (25 kg) + 6.3 litres of water	C2FTE S1	6 m²	3 hours	2 days	
For situations in which a quick setting	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2TEF	5 m²	6 hours	2 days	Installation with a double layer of adhesive
adhesive is recommended	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 7.5 kg of LATEXKOL	C2 FE S2	5 m²	4 hours	1 day	
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	Not necessary, according to manufacturer	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 6 litres of water	C2 TE S2	5,5 m²	8 hours	1 day	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg of ARDEX E 90 + 6 litres of water	C2 FT(T) E S2	10 m <sup>2</sup>	90 min.	6 hours	

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- Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support offices of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 handy (\*\*\*) addresses").
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(\*\*\*) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support offices of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses").

#### KERLITE Cotto d'Este > Technical manual KERLITE



### A.5a - Wall installation in interiors/exteriors\* of KERLITE PLUS



### A.5b - Floor installation in interiors/exteriors\* of KERLITE PLUS

Supporting material: wood, PVC, rubber, linoleum, metal, resin

of I.S. KERALASTIC Not necessary, according to manufacturer MAPEI All sizes KERALASTIC T Not necessary, according to manufacturer KERAKOLL All sizes SUPERFLEX ECO X Not necessary, according to manufacturer LATICRETE All sizes LATALASTIK For situation Not necessary, according to manufacturer LITOELASTIC in which a LITOKOL All sizes normal setting Not necessary, according to manufacturer PCI - BASF All sizes PCI COLLASTIC adhesives is recommended SAINT-GOBAIN/ Not necessary, according to All sizes FIX CR manufacturer WEBER ARDEX X 78 ARDEX All sizes ARDEX P 82 microtec + ARDEX E 90 KERAQUICK + LATEX PLUS Not necessary, according to MAPEI All sizes manufacturer Not necessary, according to KERAKOLL All sizes SUPERFLEX ECO manufacturer Not necessary, according to manufacturer LATICRETE All sizes LATALASTIK For situation Not necessary, according to manufacturer LITOKOL All sizes LITOELASTIC in which a quick settina Not necessary, according to PCI - BASF All sizes PCI COLLASTIC adhesive is manufacturer ended recor ARDEX X 78 S All sizes ARDEX P 82 ARDEX microtec + ARDEX E 90

Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. (\*)

Instructions provided directly by manufacturers, who guarantee the information given. For explanations or more details, you can contact the technical support offices of the respective (\*) manufacturers (see "9 - handy addresses")".

(\*\*) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and a "grey" versions, the mixing ratio may vary. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses").

(\*\*\*) Ratings provided directly by manufacturers, that guarantee the information given, based on laboratory tests performed at 23° C and with a relative humidity of 50%. For use in different situations, contact the technical support offices of the respective manufacturers. For explanations or more details, you can contact the technical support offices of the respective manufacturers (see "9 - handy addresses")

Supporting material: cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tile, marble slabs, stone

At the discretion of I.S.	Manufacturer	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
		F0+F0-100+40-	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1		1 day		
		50x50;100x40; 100x50	ULTRALITE S1		1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	3,5 m²	8 hours		
		100x100;	ULTRALITE S2	COMPULSORY for gypsum- based, anhydride or absorbent surfaces:	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2				
	MAPEI	300x100	KERABOND + ISOLASTIC	Primer G or ECOPRIM T For non-absorbent supports: ECOPRIM GRIP	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E 52	5 m <sup>2</sup>	1 day	14 days	
		For heated	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	5111	Tuay		
		screeds:All sizes	ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	3,5 m²			
	KERAKOLL	All sizes	H40 Eco flex	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 6.5 litres of water	C2 E	5 m²	1 day	7 days	Installation with a double layer of adhesive
or situations in which a	LATICRETE	All sizes	LATICRETE 254 Platinum	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days	
ormal setting adhesives is		50x50;100x40; 100x50	SUPERFLEX K77		1 bag (25 kg) + 8.5 litres of water	C2 TE S1				
commended	LITOKOL	100x100; 300x100	CEMENTKOL K21	For anhydrite screeds: Primer C	1 bag (25 kg)+ 7.5 kg of LATEXKOL	C2 S2	5 m²	8 hours	7 days	
		For heated screeds:All sizes	+ LATEXKOL		1 bag (25 kg)+ 7.5 kg of LATEXKOL	C2 S2				
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	If support is anhydrite- based: PCI GISOGRUND On old, non-absorbent floors: PCI GISOGRUND 303	1 bag (15 kg) + 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m²	8 hours	1 day	
	SAINT-		WEBER.COL PRO HP	For anhydrite- or calcium	1 bag (25 kg) + 7 litres of water	C2 TE S1	5 m²	2 days	14 days	
	GOBAIN / WEBER	All sizes	WEBER.COL PRO HF LIGHT	sulphate-based surfaces: WEBER.PRIM PF15	1 bag (15 kg) + 8 litres of water	C2 TE S2	5 m-	2 days	14 days	
	ARDEX	All sizes	ARDEX X 78 microtec + ARDEX E 90	For gypsum- and anhydrite-based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2 E(E) S2	6 m²	8 hours	1 day	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)
		50x50;100x40;	GRANIRAPID		Component A: 1 bag (25 kg) Component B: tub (5.5 kg)	C2 F S1	4 m²			
		100x50	ULTRALITE S1 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FTE S1	3,5 m²			
		100x100;	ULTRALITE S2 QUICK	COMPULSORY for gypsum- based, anhydride or absorbent surfaces:	1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2				
	MAPEI	300x100	ELASTORAPID	Primer G or ECOPRIM T For non-absorbent	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	4 m²	3 hours	1 day	
		For heated screeds: 50x50;100x40; 100x50	ELASTORAPID	supports: ECOPRIM GRIP	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2				
Õ		For heated screeds:100x100; 300x100	KERAQUICK + LATEX PLUS		1 bag (25 kg) + 8.5 kg of LATEX PLUS"	C2 FT S2	5 m²			Installation with a
For situations	KERAKOLL	All sizes	H40 Eco rapid	For gypsum-based surfaces: Primer A Eco	1 bag (25 kg) + 7.3 litres of water	C2F TE	6 m²	3 hours	2 days	double layer of adhesive
in which a quick setting adhesive is	LATICRETE	All sizes	LATICRETE 335 Rapid Super Flex + LATICRETE 282 Latex Additive	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m²	6 hours	2 days	
ecommended		50x50; 100x40; 100x50	LITOSTONE K99 + LATEXKOL + water		1 bag (25 kg) + 3.5 litres of LATEXKOL + 3.5 litres of water	C2 FE S1				
	LITOKOL	100x100; 300x100	LITOSTONE K99 +	For gypsum-based surfaces: Primer C	1 bag (25 kg) + 7.5 kg of LATEXKOL"	C2 FE S2	5 m²	4 hours	1 day	
		For heated screeds:All sizes	LATEXKOL		1 bag (25 kg)+ 7.5 kg of LATEXKO	C2 FE S2				
	PCI - BASF	All sizes	PCI NANOLIGHT + PCI LASTOFLEX	If support is anhydrite- based: PCI GISOGRUND On old, non-absorbent floors: PCI GISOGRUND 303	1 bag (15 kg)+ 1 can of PCI LASTOFLEX (4 kg) + 5 litres of water	C2 TE S2	5,5 m²	8 hours	1 day	
	ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	For gypsum- and anhydrite-based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg)+ 3 kg of ARDEX E 90 + 6 litres of water	C2 FE S2	6 m²	90 min.	6 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)



Mixing ratio (**)	Class (*)	Nominal coverage (*)	Setting for foot traffic and workability (***)	Ready for use (***)	Installation (*)
1	R2	2.5 m <sup>2</sup>	12 hours	7 dava	
1 can (10 kg)	R2T	2,5 m	12 hours	7 days	
1 bucket (8 kg)	R2T	3 m <sup>2</sup>	1 day	3 days	Installation with a double
1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	5 days	layer of adhesive
1 bucket (10 kg)	R2T	3 m <sup>2</sup>	12 hours	5 days	
3 kg bucket (A+B)	R2T	1.5 m <sup>2</sup>	12 hours	1 day	Installation with a single
1 bucket (10 kg)	R2	4 m <sup>2</sup>	12 hours	2 days	layer of adhesive (trowel with 10 mm tilted teeth)
1 bag (25 kg) + 1 can of ARDEX E 90 (4.5 kg) + 9 litres of water	C2 E(E) S2	6 m²	8 hours	1 day	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)
1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT 52	2,5 m²	3 hours	1 day	
1 bucket (8 kg)	R2T	3 m <sup>2</sup>	1 day	3 days	
1 bucket of component A (5 kg) 1 bucket of component B (2 kg)	R2T	3 m²	1 day	5 days	Installation with a double layer of adhesive
1 bucket (10 kg)	R2T	3 m²	12 hours	7 days	
3 kg bucket (A+B)	R2T	1.5 m <sup>2</sup>	3 hours	12 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth)
1 bag (25 kg) + 3 kg of ARDEX E 90 + 6 litres of water	C2 FE S2	6 m²	90 min.	6 hours	Installation with a single layer of adhesive (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)

#### IMPORTANT

The information and directions provided in this manual are to be considered valid until an update is published. The updated document replaces all previous publications. You can check for updates on our web site or contact the company's technical support office. The company reserves the right to modify the contents and appearance of this manual, should this be deemed necessary.



#### Quality management system.



#### Enviromental management systems of production sites.





Panariagroup Industrie Ceramiche S.p.A. is a member of the U.S. Green Building Council and Green Building Council Italia.



#### PARTNER CASACLIMA.









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