

**LAMINATED
PORCELAIN
STONEWARE**

SUPERIOR QUALITY
THIN CERAMIC
SLABS

TECHNICAL MANUAL
LAMINATED PORCELAIN STONEWARE

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TO LEARN ABOUT LAMINATED PORCELAIN STONEWARE, HOW IT IS PRODUCED AND TO APPRECIATE ITS STRENGTHS

TO UNDERSTAND WHICH MATERIAL IS MOST SUITABLE FOR YOUR PROJECT

TO MAKE THE BEST USE OF IT ON SITE

TO BE ABLE TO CHECK IF IT HAS BEEN INSTALLED CORRECTLY

TO ENSURE IT IS PROPERLY MAINTAINED OVER TIME

FOR USEFUL DETAILED INFORMATION

CONSOLIDATED KNOW-HOW

Laminated porcelain stoneware is an innovative product that has revolutionised ceramics and its possible applications: for over 15 years Panariagroup has been synonymous with expertise and reliability in the production and distribution of this material.

Panariagroup was in fact the first ceramics company to believe in and invest in this product, which it launched on the market in 2004. Today it boasts superior knowledge of both production technologies and the finished product, as well as solid experience in both sales and consulting to designers and all professional operators.

With three dedicated production lines that produce about 2 million square metres of product every year, Panariagroup is the ceramics group with the highest market share of ultra-thin materials in the world. The careful and complete control of the entire production process, together with know-how and excellent technical support both pre- and post- sales, are fundamental guarantees when acquiring a product with specific characteristics.

The information in this Technical Manual relating to the product is the official information provided by Panariagroup.


The indications given on certain aspects related to the installation of the product have been developed over the years thanks to the company's many years of experience in the production and sale of laminated porcelain stoneware.

In relation to ancillary materials (adhesives, mats, etc.), the indications provided are those provided by the relative manufacturers, that guarantee the technical characteristics of their products on the market.

WALL INSTALLATION IN INTERIORS

6mm

Substrate: cement plaster, gypsum plaster, plasterboard, fibre cement panels.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	KERAFLEX MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	1 bag (25 kg) + 7/7.7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with double-buttering
			ULTRALITE S1		1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1				
			ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m ²			
	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A Eco	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water White 1 bag (25 kg) from 7.2 to 9.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
	LATICRETE	All sizes	254 BAR	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	14 days	
	LITOKOL	Up to 50x100	SUPERFLEX K77	For gypsum-based surfaces: Primer C or Primer X94	1 bag (20 kg) + 6.4 litres of water	C2 TE S1	5.5 m ²	1 day	7 days	
			POWERFLEX K50		1 bag (20 kg) + 5.8 litres of water		5 m ²			
		All sizes	HyperFLEX K100		1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²			
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 7.4 litres of water	C2 TE S1	7.1 m ²	12 hours	3 days	
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Evo	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 6.7/8 litres of water	C2 TE S1	6 m ²	8 hours	14 days		
		WEBER.COL ProGres Top S1								
		WEBER.COL UltraGres 400								
		WEBER.COL UltraGres Light							1 bag (15 kg) + 7.8 litres of water	
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 ²	8 hours	1 day	Installation with single-buttering (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 product manufacturers (see page 62 "Useful contacts").
 (***) 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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

WALL INSTALLATION IN INTERIORS

6mm

Substrate: cement plaster, gypsum plaster, plasterboard, fibre cement panels.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	KERAQUICK MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G or ECOPRIM T	Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 FTE S1	6.3 m ²	3 hours	3 days	Installation with double-buttering
			ULTRALITE S1 QUICK		1 bag (45 kg) + 5.1/5.7 litres of water		6 m ²			
			ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 FE S2	6 m ²			
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (5.5 kg)					
	KERAKOLL	All sizes	H40 REVOLUTION	For gypsum-based surfaces: Primer A Eco	Grey 1 bag (25 kg) from 6 to 7 litres of water White 1 bag (25 kg) from 6 to 7.3 litres of water	C2F TE	6 m ²	2 hours	1 day	
	LATICRETE	All sizes	325 RAPID FL	For gypsum-based surfaces: Primer Plus	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces: Primer C or Primer X94	1 bag (20 kg) + 3 litres of LATEXKOL + 3 litres of water	C2 FE S1	5 m ²	6 hours	1 day	
			LITOSTONE K99 + LATEXKOL		1 bag (20 kg) + 6 litres of LATEXKOL					
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.2 litres of water	C2 FT S1	6.5 m ²	3 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL PRO UltraGres Fast	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 6/6.2 litres of WEBER LS0	C2 FTE S1	6 m ²	3 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 ²	90 min.	6 hours	Installation with single-buttering (6 mm trowel)	



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 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (***) 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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
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Attachment A.1b

WALL INSTALLATION IN INTERIORS

6mm

Substrate: concrete, old ceramic tiles, marble, stone.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)	
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	ULTRALITE S1	Not necessary, according to manufacturer	1 bag (15 kg) + 8.4/8.7 litres of water	C2TES1	7 m ²	8 hours	14 days	Installation with double-buttering	
			KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2TES1					
	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days		
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water						
	LATICRETE	All sizes	254 BAR	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days		
	LITOKOL	Up to 50x100	SUPERFLEX K77	For old ceramic tiles, marble slabs and stone: Prepare EVO Base	1 bag (20 kg) + 6.4 litres of water	C2 TE S1	5.5 m ²	1 day	7 days		
			POWERFLEX K50		1 bag (20 kg) + 5.8 litres of water						
	All sizes	HyperFLEX K100	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²						
		PCI - BASF	All sizes	PCI FLEXMOERTEL S1	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 7.4 litres of water	C2 TE S1	7.1 m ²	12 hours		3 days
	SAINT-GOBAIN / WEBER	All sizes	All sizes	WEBER.COL UltraGres Top S1	For old ceramic tiles, marble slabs and stone: WEBER. FLOOR 4716 Primer	1 bag (25 kg) + 6.7/8 litres of water	C2 TE S1	6 m ²	8 hours		14 days
WEBER.COL UltraGres Evo											
WEBER.COL UltraGres 400											
WEBER.COL UltraGres Light											
ARDEX	All sizes	ARDEX X 77 Microtec	For old ceramic tiles, marble slabs and stone, or alternatively: - ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day	Installation with single-buttering (6 mm trowel)		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	KERAQUICK MAXI S1	Not necessary, according to manufacturer	Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 FTE S1	6.3 m ²	3 hours	3 days	Installation with double-buttering	
			ULTRALITE S1 QUICK		1 bag (45 kg) + 5.1/5.7 litres of water		6 m ²				
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day		
					White 1 bag (25 kg) from 6 to 7.3 litres of water						
	LATICRETE	All sizes	325 RAPID FL	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days		
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL + water	For old ceramic tiles, marble slabs and stone: Prepare EVO Base	1 bag (20 kg) + 3 litres of LATEXKOL + 3 litres of water	C2 FE S1	5 m ²	6 hours	1 day		
			LITOSTONE K99 + LATEXKOL		1 bag (20 kg) + 6 litres of LATEXKOL						C2 FE S2
	All sizes	PCI - BASF	All sizes	PCI FLEXMOERTEL S1 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.2 litres of water	C2 FT S1	6.5 m ²	3 hours		1 day
		SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	For old ceramic tiles, marble slabs and stone: WEBER. FLOOR 4716 Primer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours		1 day
	ARDEX	All sizes	ARDEX X 77 S microtec	For old ceramic tiles, marble slabs and stone, or alternatively: - ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 8.5 litres of water	C2 FT(T) E S1	10 m ²	90 min.	6 hours		Installation with single-buttering (6 mm trowel)



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 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
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Attachment A.1c

WALL INSTALLATION IN INTERIORS

6mm

Substrate: particle board, metal.


At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)	
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	ULTRABOND ECO PU 2K	Not necessary, according to manufacturer	1 can (10 kg)	R2T	3 m ²	12 hours	7 days	Installation with double-buttering	
			KERALASTIK		1 can (10 kg)	R2					
			KERALASTIC T		1 can (10 kg)	R2T					
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days		
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water						
	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours				
	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 ²	1 day	7 days		
	LITOKOL	All sizes	LITOELASTIC EVO	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	4.5 m ²	1 day	5 days		
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 7.4 litres of water	C2 TE S1	7.1 m ²	12 hours	3 days		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days			
ARDEX	All sizes	ARDEX X 77 microtec	ARDEX P 82	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day	Installation with single-buttering (6 mm trowel)		
 <p>For situations in which a quick setting adhesive is recommended</p>	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 m ²	12 hours	7 days	Installation with double-buttering	
			KERAKOLL		All sizes						H40 REVOLUTION
	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2		4 m ²	4 hours	12 hours			
	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 ²	1 day	7 days		Installation with single-buttering (6 mm trowel)
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days		
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.2 litres of water	C2 FT S1	6.5 m ²	3 hours	1 day		Installation with double-buttering
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	2 days		
	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 m ²	90 min.	6 hours		Installation with single-buttering (6 mm trowel)

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 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
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 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

WALL INSTALLATION IN INTERIORS

3plus 5plus 6plus

Substrate: cement plaster, gypsum plaster, plasterboard, fibre cement panels.


At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	Up to 120x120	KERAFLEX MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G	1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with double-buttering
			ULTRALITE S1		1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1				
		100x300; 120x260	ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m ²			
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m ²			
	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A Eco	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
			H40 EXTREME	For gypsum-based surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours	
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	Up to 50x100	SUPERFLEX K77	For gypsum-based, anhydride or absorbent surfaces: Primer C or Primer X94	1 bag (20 kg) + 6.4 litres of water	C2 TE S1	5.5 m ²	1 day	7 days	
			POWERFLEX K50		1 bag (20 kg) + 5.8 litres of water					
		All sizes	HyperFLEX K100		1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²			
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.4 to 6 litres of water	C2 TE S2	5.6 m ²	12 hours	3 days	
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Evo	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 6.7/8 litres of water	C2 TE S1	6 m ²	8 hours	14 days		
		WEBER.COL UltraGres 400								
		WEBER.COL ProGres Top S1								
		WEBER.COL UltraGres Light		1 bag (15 kg) + 7.8 litres of water						
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 m ²	8 hours	1 day	Installation with single-buttering (6 mm trowel)	

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 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (***) 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 product manufacturers (see page 62 "Useful contacts").
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 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

WALL INSTALLATION IN INTERIORS

3plus 5plus 6plus

Substrate: cement plaster, gypsum plaster, plasterboard, fibre cement panels.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	Up to 120x120	KERAQUICK MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G	Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 F S1	6 m ²	3 hours	3 days	Installation with double-buttering
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FTE S1				
		100x300; 120x260	ULTRALITE S2 QUICK		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FE S2	7 m ²			
			ELASTORAPID			C2 FTE S2	6 m ²			
	KERAKOLL	All sizes	H40 REVOLUTION	For gypsum-based surfaces: Primer A ECO	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
			H40 EXTREME	For gypsum-based surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours	
	LATICRETE	All sizes	325 RAPID FL	For gypsum-based surfaces: Primer Plus	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL + water	For gypsum-based, anhydride or absorbent surfaces: Primer C or Primer X94	1 bag (20 kg) + 3 litres of LATEXKOL + 3 litres of water	C2 FE S1	5 m ²	6 hours	1 day	
			All sizes		LITOSTONE K99 + LATEXKOL					
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m ²	5 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	For gypsum-based surfaces: WEBER.PRIM PF15	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 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 + 7.5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours	Installation with single-buttering (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 product manufacturers (see page 62 "Useful contacts").
 (***) 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 product manufacturers (see page 62 "Useful contacts").
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Attachment A.2b

WALL INSTALLATION IN INTERIORS

3plus 5plus 6plus

Substrate: concrete, old ceramic tiles, marble, stone.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (****)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (***)	Installation (*)
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	Up to 120x120	KERAFLEX MAXI S1	If levelling is necessary, on the mentioned supports, apply ECOPRIM GRIP beforehand	1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	7 m ²	8 hours	14 days	Installation with double-buttering
			ULTRALITE S1		1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1				
		100x300; 120x260	ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m ²			
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
			H40 EXTREME		Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	All sizes	HYPERFLEX K100	For old ceramic tiles, marble slabs and stone: Prepare EVO Base	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²	1 day	7 days	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.4 to 6 litres of water	C2 TE S2	5.6 m ²	12 hours	3 days	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Top	For old ceramic tiles, marble slabs and stone: WEBER.FLOOR 4716 Primer	1 bag (15 kg) + 6.7/8 litres of water	C2 TE S1	6 m ²	8 hours	14 days	
			WEBER.COL UltraGres Evo		1 bag (15 kg) + 7.8 litres of water					
ARDEX	All sizes	ARDEX X 77 microtec + ARDEX E 90	For old ceramic tiles, marble slabs and stone, or alternatively: - ARDEX P 4 - ARDEX X 77 (rough levelled)	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 ²	8 hours	1 day	Installation with single-buttering (6 mm trowel)	
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	Up to 120x120	KERAQUICK MAXI S1	If levelling is necessary, on the mentioned supports, apply ECOPRIM GRIP beforehand	Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 FT S1	6 m ²	3 hours	1 day	Installation with double-buttering
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2				
		100x300; 120x260	ULTRALITE S2 QUICK		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m ²			
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	
			H40 EXTREME		White 1 bag (25 kg) from 6 to 7.3 litres of water	R2	4 m ²	4 hours	12 hours	
	LATICRETE	All sizes	325 RAPID FL	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	For old ceramic tiles, marble slabs and stone: Prepare EVO Base	1 bag (25 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m ²	5 hours	1 day	
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	For old ceramic tiles, marble slabs and stone: WEBER.FLOOR 4716 Primer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	For old ceramic tiles, marble slabs and stone, or alternatively: - ARDEX P 4 - ARDEX X 77 (rough levelled)	1 bag (25 kg) + 3 kg of ARDEX E 90 + 7.5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours	



(*) Instructions provided directly by manufacturers, who guarantee the information given.
 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (***) 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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

Attachment A.2c

WALL INSTALLATION IN INTERIORS

3plus 5plus 6plus

Substrate: particle board, metal.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (****)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (***)	Installation (*)	
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	ULTRABOND ECO PU 2K	Not necessary, according to manufacturer	1 can (10 kg)	R2T	3 m ²	12 hours	7 days	Installation with single-buttering (6 mm trowel)	
			KERALASTIK			R2					
			KERALASTIC T			R2T					
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days		
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water						
	KERAKOLL	All sizes	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours		
					1 bucket of component A (5 kg) 1 bucket of component B (2 kg)						
	LATICRETE	All sizes	LATALASTIK	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	1 day	7 days		
	LITOKOL	All sizes	LITOELASTIC EVO	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	4.5 m ²	1 day	5 days		
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.4 to 6 litres of water	C2 TE S2	5.6 m ²	12 hours	3 days		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2 T	3 m ²	12 hours	2 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	C2 T(T) E(E) S2	10 m ²	8 hours	1 day	Installation with single-buttering (6 mm trowel)		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	KERAQUICK MAXI S1 + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT S2	7 m ²	12 hours	7 days	Installation with single-buttering (6 mm trowel)	
						KERAKOLL					All sizes
	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²		4 hours	12 hours			
	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 ²	1 day	7 days		
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	5 days		
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m ²	5 hours	1 day		
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL.FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2 T	3 m ²	12 hours	2 days		
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg ARDEX E 90 + 7.5 litres of water	C2 F(F)T E S2	10 m ²	90 min.	6 hours		Installation with single-buttering (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, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

Attachment A.3a

WALL INSTALLATION IN EXTERIORS

6mm

Substrate: plaster.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	ULTRALITE S2	Not necessary, according to manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m ²	8 hours	14 days	Installation with double-buttering
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m ²			
	KERAKOLL	Up to 100x100	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
	LATICRETE	Up to 100x100	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	All sizes	HYPERFLEX K100	Not necessary, according to manufacturer	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²	1 day	7 days	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 7.4 litres of water	C2 TE S1	7.1 m ²	12 hours	3 days	
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (20 kg) + 6.4/6.8 litres of water	C2 TE S2	6 m ²	8 hours	14 days		
ARDEX	Up to 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	ELASTORAPID	Not necessary, according to manufacturer	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m ²	3 hours	1 day	Installation with double-buttering
			ULTRALITE S2 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2	7 m ²			
	KERAKOLL	Up to 100x100	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
	LATICRETE	Up to 100x100	325 RAPID FL	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.2 litres of water	C2 FT S1	6.5 m ²	3 hours	1 day	
	SAINT-GOBAIN / WEBER	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day	
Above 100x100		WEBER.COL UltraGres Fast + WEBER L50	1 bag (25 kg) + 6/6.2 litres of WEBER L50							
ARDEX	Up to 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 ²	90 min.	6 hours		



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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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

Attachment A.3b

WALL INSTALLATION IN EXTERIORS

6mm

Substrate: concrete.



At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	ULTRALITE S2	Not necessary, according to manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m ²	8 hours	14 days	Installation with double-buttering
			KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m ²			
	KERAKOLL	Up to 100x100	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
	LITOKOL	All sizes	HYPERFLEX K100	Not necessary, according to manufacturer	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²	1 day	7 days	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 7.4 litres of water	C2 TE S1	7.1 m ²	12 hours	3 days	
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (25 kg) + 6.4/6.8 litres of water	C2 TE S2	6 m ²	8 hours	14 days		
ARDEX	Up to 100x100	ARDEX X 77 microtec	Not necessary, according to manufacturer	1 bag (25 kg) + 11 litres of water	C2 T(T) E(E) S1	10 m ²	8 hours	1 day		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	ELASTORAPID	Not necessary, according to manufacturer	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m ²	3 hours	1 day	Installation with double-buttering
			ULTRALITE S2 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2	7 m ²			
	KERAKOLL	Up to 100x100	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
	LATICRETE	All sizes	325 RAPID FL	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S1 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.2 litres of water	C2 FT S1	6.5 m ²	3 hours	1 day	
	SAINT-GOBAIN / WEBER	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day	
Above 100x100		WEBER.COL UltraGres Fast + WEBER L50	1 bag (25 kg) + 6/6.2 litres of WEBER L50							
ARDEX	Up to 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 ²	90 min.	6 hours		

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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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

WALL INSTALLATION IN EXTERIORS

3plus 5plus 6plus

Substrate: plaster.



At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (***)	Installation (*)
 For situations in which a normal setting adhesive is recommended	MAPEI	Up to 120x120	KERABOND + ISOLASTIC	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	5 m ²	8 hours	14 days	Installation with double-buttering
			ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	3 m ²			
		120x260; 100x300	ULTRABOND ECO PU 2K		1 can (10 kg)	R2T	2.5 m ²	12 hours	7 days	
			KERALASTIK KERALASTIC T			R2				
	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
					H40 EXTREME	R2	4 m ²	4 hours	12 hours	
	LITOKOL	Up to 50x100	HYPERFLEX K100	Not necessary, according to manufacturer	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²	1 day	7 days	
			All sizes		LITOELASTIC EVO	1 bucket (10 kg)	R2T			
PCI - BASF	All sizes	PCI FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.4 to 6 litres of water	C2 TE S2	5.6 m ²	12 hours	3 days		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (20 kg) + 6.4/6.8 litres of water	C2 TE S2	6 m ²	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	C2 T(T) E(E) S2	10 m ²	8 hours	1 day		
 For situations in which a quick setting adhesive is recommended	MAPEI	Up to 120x120	ULTRALITE S2 QUICK	Not necessary, according to manufacturer	1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m ²	3 hours	2 days	
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2FTE S2				1 day
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
	LATICRETE	All sizes	325 RAPID FL	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
					H40 EXTREME					R2
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day	
			All sizes		LITOELASTIC EVO					1 bucket (10 kg)
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m ²	5 hours	1 day	
	SAINT-GOBAIN / WEBER	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day	
Above 100x100			WEBER.COL UltraGres Fast + WEBER L50		1 bag (25 kg) + 6/6.2 litres of WEBER L50					
ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg ARDEX E 90 + 7.5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours		

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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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

WALL INSTALLATION IN EXTERIORS

3plus 5plus 6plus

Substrate: concrete.


At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (***)	Installation (*)
 For situations in which a normal setting adhesive is recommended	MAPEI	Up to 120x120	KERABOND + ISOLASTIC	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	5 m ²	8 hours	14 days	Installation with double-buttering
			ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	3 m ²			
		120x260; 100x300	ULTRABOND ECO PU 2K		1 can (10 kg)	R2T	2.5 m ²	12 hours	7 days	
			KERALASTIK KERALASTIC T			R2				
	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days	
					H40 EXTREME	R2	4 m ²	4 hours	12 hours	
	LITOKOL	Up to 50x100	HYPERFLEX K100	Not necessary, according to manufacturer	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m ²	1 day	7 days	
			All sizes		LITOELASTIC EVO	1 bucket (10 kg)	R2T			
PCI - BASF	All sizes	PCI FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.4 to 6 litres of water	C2 TE S2	5.6 m ²	12 hours	3 days		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (20 kg) + 6.4/6.8 litres of water	C2 TE S2	6 m ²	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	C2 T(T) E(E) S2	10 m ²	8 hours	1 day		
 For situations in which a quick setting adhesive is recommended	MAPEI	Up to 120x120	ULTRALITE S2 QUICK	Not necessary, according to manufacturer	1 bag (15 kg) + 6 litres of water	C2 FE S2	4 m ²	3 hours	2 days	
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2FTE S2				1 day
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2 FTE	6 m ²	2 hours	1 day	
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
	LATICRETE	All sizes	325 RAPID FL	Not necessary, according to manufacturer	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
					H40 EXTREME					R2
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day	
			All sizes		LITOELASTIC EVO					1 bucket (10 kg)
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m ²	5 hours	1 day	
	SAINT-GOBAIN / WEBER	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary, according to manufacturer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day	
Above 100x100			WEBER.COL UltraGres Fast + WEBER L50		1 bag (25 kg) + 6/6.2 litres of WEBER L50					
ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	Not necessary, according to manufacturer	1 bag (25 kg) + 3 kg ARDEX E 90 + 7.5 litres of water	C2 FT(T) E S2	10 m ²	90 min.	6 hours		

(*) Instructions provided directly by manufacturers, who guarantee the information given.
 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (***) 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 product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

FLOOR INSTALLATION IN INTERIORS/EXTERIORS(*)

6mm 3plus 5plus 6plus


Substrate: cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tiles, marble slabs, stone.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (***)	Installation (*)				
 For situations in which a normal setting adhesive is recommended	MAPEI	Up to 120x120	KERAFLEX MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G	1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	3.5 m ²	8 hours	14 days	Installation with double-buttering				
			ULTRALITE S1		1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1								
		120x260; 100x300	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	3.5 m ²							
			ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2								
	KERAKOLL	All sizes	H40 NO LIMITS	For gypsum-based surfaces: Primer A ECO	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days					
			H40 EXTREME		For gypsum-based surfaces: SLC ECO EP 21						1 bucket (10 kg)	R2	4 m ²	4 hours
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m ²	1 day	7 days					
	LITOKOL	All sizes	HYPERFLEX K100	For gypsum-based or self-levelling surfaces: Prepare EVO Base	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S1	5 m ²	1 day	7 days					
						C2 TE S2	5.5 m ²							
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 5.4 to 6 litres of water	C2 TE S2	5.6 m ²	12 hours	3 days					
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL ProGres Top S1 WEBER.COL UltraGres Evo WEBER.COL UltraGres 400	For gypsum-based surfaces: WEBER PRIM PF15. For old ceramic tiles, marble slabs and stone: WEBER.FLOOR 4716 Primer	1 bag (25 kg) + 6.7/8 litres of water	C2TES1	6 m ²	8 hours	14 days						
									WEBER.COL UltraGres Light	1 bag (25 kg) + 6.7/7 litres of water	C2 FTE S1	6 m ²	3 hours	1 day

FLOOR INSTALLATION IN INTERIORS/EXTERIORS(*)

6mm 3plus 5plus 6plus

Substrate: cement-based screeds, calcium sulphate-based or heated screeds, self-levelling products, concrete, old ceramic tiles, marble slabs, stone.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*)	Primer, if necessary (*)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (***)	Installation (*)
 For situations in which a quick setting adhesive is recommended	MAPEI	Up to 50x100	KERAQUICK MAXI S1	COMPULSORY for gypsum-based, anhydride or absorbent surfaces: Primer G	Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 FT S1	4 m ²	3 hours	3 days	Installation with double-buttering
			ULTRALITE S1 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FTE S1	3.5 m ²			
		Above 50x100	ULTRALITE S2 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2	4 m ²			
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2				
	KERAKOLL	All sizes	H40 REVOLUTION	For gypsum-based or anhydride surfaces: Primer A Eco	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
			H40 EXTREME	For gypsum-based or anhydride surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours	
	LATICRETE	All sizes	325 RAPID FL	For gypsum-based surfaces: Primer Plus	1 bag (25 kg) + 6/7 litres of latex	C2 TE F	5 m ²	6 hours	2 days	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	For gypsum-based or self-levelling surfaces: Prepare EVO Base	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day	
	PCI - BASF	All sizes	PCI FLEXMOERTEL S2 RAPID	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m ²	5 hours	1 day	
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Fast	For gypsum-based surfaces: WEBER PRIM PF15. For old ceramic tiles, marble slabs and stone: WEBER.FLOOR 4716 Primer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day		
ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	For gypsum and anhydride-based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 3 kg ARDEX E 90 + 7 litres of water	C2 FE S2	6 m ²	90 min.	6 hours		

(*) Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 120x120 cm is recommended.
 (**) Instructions provided directly by manufacturers, who guarantee the information given.
 (***) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.



(*) Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 120x120 cm is recommended.
 (**) Instructions provided directly by manufacturers, who guarantee the information given.
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 (****) 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 product manufacturers (see page 62 "Useful contacts").
 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

Attachment A.5b

FLOOR INSTALLATION IN INTERIORS/EXTERIORS(*)

6mm 3plus 5plus 6plus

Substrate: hardwood, PVC, rubber, linoleum, metal, resin.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*) (****)	Primer, if necessary (*) (****)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)	
 <p>For situations in which a normal setting adhesive is recommended</p>	MAPEI	All sizes	ULTRABOND ECO PU 2K KERALASTIK KERALASTIC T	Not necessary, according to manufacturer	1 can (10 kg)	R2T R2 R2T	2.5 m ²	12 hours	7 days	Installation with double-buttering	
	KERAKOLL	All sizes in interiors	H40 NO LIMITS	KERAGRIP ECO	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water White 1 bag (25 kg) from 7.2 to 9.5 litres of water	C2 TE	6 m ²	20 hours	3 days		
		All sizes	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours		
	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 ²	1 day	5 days		
	LITOKOL	All sizes	LITOELASTIC EVO	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	4.5 m ²	1 day	5 days		
	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1.5 m ²	12 hours	1 day		Installation with single-buttering (trowel with 10 mm tilted teeth)
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL. FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2 T	3 m ²	12 hours	2 days		Installation with double-buttering
ARDEX	All sizes	ARDEX X S 28 New Microtec	ARDEX P 82	1 bag (25 kg) + 7.5 to 9 litres of water	C2 FTE S1	6 m ²	4 hours	1 day	Installation with single-buttering (trowel with 12 mm tilted teeth or ARDEX Microtec trowel)		
 <p>For situations in which a quick setting adhesive is recommended</p>	MAPEI	All sizes	KERAQUICK MAXI S1 + LATEX PLUS	Not necessary, according to manufacturer	1 bag (25 kg) + 8.5 kg of LATEX PLUS	C2 FT S2	2.5 m ²	12 hours	7 days	Installation with double-buttering	
	KERAKOLL	All sizes in interiors	H40 REVOLUTION	KERAGRIP ECO	Grey 1 bag (25 kg) from 6 to 7 litres of water White 1 bag (25 kg) from 6 to 7.3 litres of water	C2F TE	6 m ²	2 hours	1 day		
		All sizes	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours		
	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 ²	1 day	5 days		
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m ²	12 hours	7 days		
	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1.5 m ²	3 hours	12 hours		Installation with single-buttering (trowel with 10 mm tilted teeth)
	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL. FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2 T	3 m ²	12 hours	2 days		Installation with double-buttering
ARDEX	All sizes	ARDEX X 78 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg ARDEX E 90 + 7 litres of water	C2 FE S2	6 m ²	90 min.	6 hours	Installation with single-buttering (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)		




(*) Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 120x120 cm is recommended.
 (**) Instructions provided directly by manufacturers, who guarantee the information given.
 For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
 (***) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
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Attachment A.6

OUTDOOR FLOOR INSTALLATION NOT SUITABLE FOR VEHICULAR PASSAGE(*)

6mm 5plus 6plus

Substrate: decoupling mats certified as suitable for this purpose by the manufacturer.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*) (****)	Primer, if necessary (*) (****)	Mixing ratio (**)	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times (***)	Ready for use (****)	Installation (*)
 <p>For situations in which a normal setting adhesive is recommended</p>	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water	C2 TE	6 m ²	20 hours	3 days	Installation with double-buttering
					White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours			
	LITOKOL	Up to 100x100	HYPERFLEX K100	Not necessary, according to manufacturer	1 bag (20 kg) + 7 litres of water	C2 TE S2	5.5 m ²	24 hours	7 days	
 <p>For situations in which a quick setting adhesive is recommended</p>	SAINT-GOBAIN / WEBER	All sizes	WEBER.COL. ProGres Top S1	Not necessary, according to manufacturer	1 bag (25 kg) + 6.7/8 litres of water	C2TES1	6 m ²	8 hours	14 days	Installation with double-buttering
					WEBER.COL. UltraGres Evo					
	WEBER.COL. UltraGres 400	1 bag (25 kg) + 6.7/7 litres of WEBER L50								
	WEBER.COL. UltraGres Light									
 <p>For situations in which a quick setting adhesive is recommended</p>	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m ²	2 hours	1 day	Installation with double-buttering
					White 1 bag (25 kg) from 6 to 7.3 litres of water					
	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m ²	4 hours	12 hours			
LITOKOL	Up to 100x100	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m ²	6 hours	1 day		
SAINT-GOBAIN / WEBER	All sizes	WEBER.COL. UltraGres Fast	Not necessary, according to manufacturer	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE S1	6 m ²	3 hours	1 day		

(*) Upon condition that surfaces are sheltered (e.g. loggias, covered balconies, etc.) and made totally impervious. The use of sizes that are not larger than 120x120 cm is recommended.
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 (***) Instructions provided directly by manufacturers, who guarantee the information given. If a product is offered in both "white" and "grey" versions, the mixing ratio may vary. For explanations or more details, contact the technical support offices of the product manufacturers (see page 62 "Useful contacts").
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 (*****) Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

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