# **PANARIA**group<sup>®</sup>

# LAMINATED PORCELAIN STONEWARE

SUPERIOR QUALITY THIN CERAMIC SLABS TECHNICAL MANUAL LAMINATED PORCELAIN STONEWARE

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**TECHNICAL MANUAL** 

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# **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.

**PANARIA**group<sup>®</sup>



**Attachment A.1a** 

WALL INSTALLATION IN INTERIORS

All sizes

Only for

substrates:

fibre cement

panels: 120x260;

All sizes

All sizes

Up to 50x100

All sizes

All sizes

All sizes

All sizes

KERAKOLL

LATICRETE

LITOKOL

PCI - BASF

SAINT-

GOBAIN /

ARDEX

which a normal

setting adhesiv

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

COMPULSORY for

gypsum-based, anhydride or

absorbent surfaces:

Primer G or ECOPRIM T

For gypsum-based

Primer A Eco

Not necessary,

manufacturer

For gypsum-based

surfaces: Primer C

or Primer X94

For gypsum-based

surfaces: PCI GISOGRUND

For gypsum-based

WEBER.PRIM PF15

For gypsum-based

ARDEX P 51

KERAFLEX

ULTRALITE S1

ULTRALITE S2

KERABOND + ISOLASTIC

H40 NO LIMITS

254 BAR

SUPERFLEX K77

POWERFLEX K50

HyperFLEX K100

FLEXMOERTEL S1 WEBER.COL UltraGres Evo

WEBER.COL

WEBER.COL

UltraGres 400 WEBER.COL

UltraGres Light

ARDEX X 77

ProGres Top S1

1 bag (25 kg) + 7/7.7 litres

of water 1 bag (15 kg) + 8.4/8.7 litres

+ 5.9/6.2 litres

of water

1 bag (25 kg) + 8.5 kg of ISOLASTIC

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

1 bag (25 kg) + 6 litres of water

1 bag (20 kg) +

6.4 litres of water

1 bag (20 kg) + 5.8 litres of water

1 bag (20 kg)

+ 6/6.4 litres

of water

1 bag (25 kg)

+ 6.7/8 litres of water

1 bag (15 kg) +

1 bag (25 kg)

+ 11 litres

1 bag (20 kg) + 7.4 litres of water

C2 TE S1

C2 TE S1

C2 E S2

C2 E S2

C2 TE

C2 TE S1

C2 TE S1

C2 TE S2

C2 TE S1

E(E) S1

7 m<sup>2</sup>

6.3 m<sup>2</sup>

6.5 m<sup>2</sup>

 $6 \text{ m}^2$ 

5 m<sup>2</sup>

5.5 m<sup>2</sup>

 $5 \text{ m}^2$ 

5.5 m<sup>2</sup>

6 m<sup>2</sup>

10 m<sup>2</sup>

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6mm

and ready for

8 hours

20 hours

1 day

1 day

8 hours

8 hours

14 days

3 days

14 days

7 days

3 days

14 days

1 day

Installation

with double

buttering

Installation

with single-

buttering (6

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 (*)
		All sizes	KERAQUICK MAXI S1		Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 FTE	6.3 m²			
	MAPEI	All sizes	ULTRALITE \$1 QUICK	COMPULSORY for gypsum-based, anhydride or	1 bag (45 kg) + 5.1/5.7 litres of water	S1	6 m²	3 hours	3 days	
	WAFEI	Only for substrates: plasterboard, fibre cement	ULTRALITE S2	absorbent surfaces: Primer G or ECOPRIM T	1 bag (15 kg) + 5.9/6.2 litres of water	C2 FE S2	6 m²	3 nours	3 days	
		panels: 120x260; 100x300	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (5.5 kg)	C2 FTE S2	o m-			
å	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 m²	2 hours	1 day	Installation with double-
For situations in which a quick	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 m²	6 hours	2 days	buttering
setting adhesive is recommended	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL + water	For gypsum-based surfaces:	1 bag (20 kg) + 3 litres of LATEXKOL + 3 litres of water	C2 FE S1	5 m²	6 hours	1 day	
	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Primer C or Primer X94	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	3 m²	o nours	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 \$1	6.5 m²	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 L50	C2 FTE S1	6 m²	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 m²	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 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"). 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.

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# **Attachment A.1c**

#### **WALL INSTALLATION IN INTERIORS**

**Attachment A.1b** 

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
	MAPEI	All sizes	ULTRALITE S1  KERAFLEX  MAXI S1	Not necessary, according to manufacturer	1 bag (15 kg) + 8.4/8.7 litres of water 1 bag (25 kg) +7.2/7.7 litres	C2TES1	- 7 m²	8 hours	14 days	
	KERAKOLL	All sizes	H40 NO LIMITS	Not necessary, according to manufacturer	of water 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 m²	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 <sup>2</sup>	1 day	7 days	]
		Up to 50x100	SUPERFLEX K77	For old ceramic tiles,	1 bag (20 kg) + 6.4 litres of water 1 bag (20 kg) +	C2 TE S1	5.5 m <sup>2</sup>			Installation with double- buttering
For situations in	LITOKOL	All sizes	POWERFLEX K50 HyperFLEX K100	marble slabs and stone: Prepare EVO Base	5.8 litres of water 1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5 m <sup>2</sup>	1 day	7 days	
which a normal setting adhesive is recommended	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 <sup>2</sup>	12 hours	3 days	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Top S1 WEBER.COL UltraGres Evo WEBER.COL UltraGres 400	For old ceramic tiles, marble slabs and stone: WEBER. FLOOR 4716		C2 TE S1	6 m²	8 hours	14 days	
			WEBER.COL UltraGres Light		1 bag (15 kg) + 7.8 litres of water					
	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 m²	8 hours	1 day	Installation with single- buttering (6 mm trowel)
	MAPEI	All sizes	KERAQUICK MAXI S1	Not necessary,	Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 FTE	6.3 m <sup>2</sup>	3 hours	3 days	
		7 111 51255	ULTRALITE \$1 QUICK	manufacturer	1 bag (45 kg) + 5.1/5.7 litres of water	S1	6 m²	0.100.0	o dayo	
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	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 m²	2 hours	1 day	
₽	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 <sup>2</sup>	6 hours	2 days	Installation
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL + water	For old ceramic tiles, marble slabs and stone:	1 bag (20 kg) + 3 litres of LATEXKOL + 3 litres of water	C2 FE S1	5 m <sup>2</sup>	6 hours	1 day	with double- buttering
For situations in which a quick setting adhesive		All sizes	LITOSTONE K99 + LATEXKOL	Prepare EVO Base	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2				
is recommended	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 <sup>2</sup>	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 m²	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 m²	90 min.	6 hours	Installation with single- buttering (6 mm trowel)

#### WALL INSTALLATION IN INTERIORS

ATTACHMENTS

A N D

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
	MAPEI	All sizes	ULTRABOND ECO PU 2K KERALASTIK	Not necessary, according to manufacturer	1 can (10 kg) 1 can (10 kg)	R2T R2	3 m²	12 hours	7 days	
	KERAKOLL	All sizes	H40 NO LIMITS	KERAGRIP ECO	1 can (10 kg) 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	R2T C2 TE	6 m²	20 hours	3 days	_
			H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	
$\blacksquare$	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 double- buttering
For situations in which a normal setting adhesive	LITOKOL	All sizes	LITOELASTIC EVO	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	4.5 m²	1 day	5 days	
is recommended	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 <sup>2</sup>	12 hours	3 days	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL FIX CR	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m²	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 m²	8 hours	1 day	Installation with single- buttering (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	12 hours	7 days	
	KERAKOLL	All sizes	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 m²	2 hours	1 day	Installation with double- buttering
			H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m²	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 m²	1 day	7 days	Installation with single- buttering (6 mm trowel)
For situations in which a 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	
	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 <sup>2</sup>	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 <sup>2</sup>	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 m²	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.

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# **Attachment A.2a**

#### **WALL INSTALLATION IN INTERIORS**

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
								grouting times		
		Up to	KERAFLEX MAXI S1		1 bag (25 kg) + 7.2/7.7 litres of water	C2 TE S1	7 2			
		120x120	ULTRALITE \$1	COMPULSORY for gypsum-based, anhydride or	1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m <sup>2</sup>			
	MAPEI	100×300;	ULTRALITE S2	absorbent surfaces: Primer G	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m <sup>2</sup>	8 hours	14 days	
		120x260	KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m <sup>2</sup>			
				For gypsum-based	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water					
	KERAKOLL	All sizes	H40 NO LIMITS	surfaces: Primer A Eco	White 1 bag (25 kg) from 7.2 to 9.5 litres of water	C2 TE	6 m <sup>2</sup>	20 hours	3 days	Installation with double-
			H40 EXTREME	For gypsum-based surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m²	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 m²	1 day	7 days	
For situations in which a normal		Up to	SUPERFLEX K77	5	1 bag (20 kg) + 6.4 litres of water		5.5 m <sup>2</sup>			buttering
setting adhesive is recommended	LITOKOL	50×100	POWERFLEX K50	For gypsum-based, anhydride or absorbent surfaces: Primer C	1 bag (20 kg) + 5.8 litres of water	C2 TE S1	5 m <sup>2</sup>	1 day	7 days	
		All sizes	HyperFLEX K100	or Primer X94	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m <sup>2</sup>			
	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 <sup>2</sup>	12 hours	3 days	
	SAINT- GOBAIN / WEBER		WEBER.COL UltraGres Evo							
		All sizes	WEBER.COL UltraGres 400	For gypsum-based surfaces:	1 bag (25 kg) + 6.7/8 litres of water	C2 TE S1	6 m <sup>2</sup>	8 hours	14 days	
		Ful 31263	WEBER.COL ProGres Top S1	WEBER.PRIM PF15		32 1231		o nouis	1- days	
			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 <sup>2</sup>	8 hours	1 day	Installation with single- buttering (6 mm

#### WALL INSTALLATION IN INTERIORS

5plus

ATTACHMENTS

PROFILES

A N D

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 (***)	Installatio
		Up to 120x120	KERAQUICK MAXI S1		Grey 1 bag (25 kg) + 5.5/6 litres of water	C2 F S1	6 m²			
			ULTRALITE S1 QUICK	COMPULSORY for gypsum-based,	1 bag (15 kg)	C2 FTE S1				
	MAPEI		ULTRALITE S2 QUICK	anhydride or absorbent surfaces: Primer G	+ 5.1/5.7 litres of water	C2 FE S2	7 m²	3 hours	3 days	
		100x300; 120x260	ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m²			
			H40 REVOLUTION	For gypsum-based surfaces:	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m²	2 hours	1 day	
	KERAKOLL	All sizes	H40 REVOLUTION	Primer A ECO	White 1 bag (25 kg) from 6 to 7.3 litres of water	CZF IE	o m	2 nours	i day	
			H40 EXTREME	For gypsum-based surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	Installation with doub buttering
For situations in which a quick setting adhesive is recommended	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 m²	6 hours	2 days	
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL + water	For gypsum-based, anhydride or	1 bag (20 kg) + 3 litres of LATEXKOL + 3 litres of water	C2 FE S1	5 m <sup>2</sup>	6 hours	1 day	
	LITOROL	All sizes	LITOSTONE K99 + LATEXKOL	absorbent surfaces: Primer C or Primer X94	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	3 m	o nours	1 day	
-	PCI - BASF	ASF All sizes FLEXMOERTEL S2	For gypsum-based surfaces: PCI GISOGRUND	1 bag (20 kg) + 3.8 litres of water	C2 FT S2	5 m²	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 m²	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 m²	90 min.	6 hours	Installation with single buttering mm trown

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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.

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

**Attachment A.2b** 

3plus 5plus

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 (*)
								(***)		
		Up to 120x120	KERAFLEX MAXI S1 ULTRALITE S1	If levelling is necessary, on the	1 bag (25 kg) + 7.2/7.7 litres of water 1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1	7 m²			
	MAPEI	100x300;	ULTRALITE \$2	mentioned supports, apply 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	
		120x260	KERABOND + ISOLASTIC	beforehand	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m <sup>2</sup>			
	KERAKOLL	All sizes	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 m²	20 hours	3 days	
			H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	Installation with double-
	LATICRETE	All sizes	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	buttering
For situations in which a normal	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 <sup>2</sup>	1 day	7 days	
setting adhesive is recommended	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 <sup>2</sup>	12 hours	3 days	
	SAINT- GOBAIN / WEBER	All sizes	WEBER.COL UltraGres Top WEBER.COL UltraGres Evo WEBER.COL UltraGres 400 WEBER.COL	For old ceramic tiles, marble slabs and stone: WEBER. FLOOR 4716 Primer	1 bag (15 kg) + 6.7/8 litres of water 1 bag (15 kg) + 7.8 litres of	- C2 TE S1	6 m <sup>2</sup>	8 hours	14 days	
	ARDEX	All sizes	UltraGres Light  ARDEX X 77 microtec + ARDEX E 90	For old ceramic tiles, marble slabs and stone, or alternatively: - ARDEX X 77 (rough levelled)	WEBER L50  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 single- buttering (6 mm trowel)
		Up to 120x120	KERAQUICK MAXI S1 ULTRALITE S1 QUICK	If levelling is	Grey 1 bag (25 kg) + 5.5/6 litres of water 1 bag (15 kg)	C2 FT S1 C2 FTE S1	6 m²			
	MAPEI		ULTRALITE	necessary, on the mentioned supports,	+ 5.1/5.7 litres of water	C2 FE S2	7 m <sup>2</sup>	3 hours	1 day	
		100×300; 120×260	S2 QUICK  ELASTORAPID	apply ECOPRIM GRIP beforehand	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m <sup>2</sup>			
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	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 m²	2 hours	1 day	Installation
			H40 EXTREME		1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	buttering
For situations	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 <sup>2</sup>	6 hours	2 days	
in which a quick setting adhesive is recommended	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 m²	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 <sup>2</sup>	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 m²	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 <sup>2</sup>	90 min.	6 hours	Installation with single- buttering (6 mm trowel)

Instructions provided directly by manufacturers, who guarantee the information given.

#### WALL INSTALLATION IN INTERIORS

ATTACHMENTS

A N

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 (***)	Installatio
	MAPEI	All sizes	ULTRABOND ECO PU 2K KERALASTIK KERALASTIC T	Not necessary, according to manufacturer	1 can (10 kg)	R2T R2 R2T	3 m²	12 hours	7 days	Installation with single buttering mm trows
	KERAKOLL	All sizes	SUPERFLEX ECO	Not necessary, according to manufacturer	1 bucket (8 kg)	R2T	3 m²	12 hours	3 days	
	KERAKOLL	All sizes	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 m²	20 hours	3 days	
$\overline{\mathbb{X}}$			H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m <sup>2</sup>	4 hours	12 hours	Installatio
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)	KZI	3 m <sup>2</sup>	1 day	7 days	with doub butterin
normal setting adhesive is recommended	LITOKOL	All sizes	LITOELASTIC EVO	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	4.5 m <sup>2</sup>	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 <sup>2</sup>	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 m²	12 hours	2 days	
	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	C2 T(T) E(E) S2	10 m <sup>2</sup>	8 hours	1 day	Installati with sing buttering mm trow
	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 m²	12 hours	7 days	Installati with sing buttering mm trow
	KERAKOLL	All sizes	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 m²	2 hours	1 day	
			H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m²	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)	KZI	3 m <sup>2</sup>	1 day	7 days	Installati
For situations 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	with doub butterin
recommended	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 <sup>2</sup>	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 m²	12 hours	2 days	
	ARDEX	All sizes	ARDEX X 77 S microtec + ARDEX E 90	ARDEX P 82	1 bag (25 kg) + 3 kg ARDEX E 90 + 7.5 litres of water	C2 F(F)T E S2	10 m <sup>2</sup>	90 min.	6 hours	Installati with sing buttering mm trow

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.

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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.

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#### **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
	MAPEI	All sizes	ULTRALITE S2	Not necessary, according to	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m <sup>2</sup>	8 hours	14 days	
	WALL	All sizes	KERABOND + ISOLASTIC	manufacturer	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m <sup>2</sup>	6 nours	14 days	
		Upto		Not necessary,	Grey 1 bag (25 kg) from 7.1 to 8.5 litres of water					
	KERAKOLL	100×100	H40 NO LIMITS	according to manufacturer	White 1 bag (25 kg) from 7.2 to 9.5 litres of water	C2 TE	6 m <sup>2</sup>	20 hours	3 days	
For situations in	LATICRETE	Up to 100x100	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days	Installation with double- buttering
which a normal setting adhesive is recommended	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 <sup>2</sup>	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 m²	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 m²	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 m²	8 hours	1 day	
	MAPEI	All sizes	ELASTORAPID	Not necessary, according to	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m <sup>2</sup>	3 hours	1 day	
			ULTRALITE S2 QUICK	manufacturer	1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2	7 m <sup>2</sup>		,	
	KERAKOLL	Up to	H40 REVOLUTION	Not necessary,	Grey 1 bag (25 kg) from 6 to 7 litres of water	C2F TE	6 m²	2 hours	1	
	KERAKULL	100×100	H40 REVOLUTION	according to manufacturer	White 1 bag (25 kg) from 6 to 7.3 litres of water	CZFTE	o m-	2 nours	1 day	
	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 m²	6 hours	2 days	Installation
For situations in which a quick setting adhesive	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m²	6 hours	1 day	with double- buttering
is recommended	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 <sup>2</sup>	3 hours	1 day	
	SAINT-	Up to 100×100	WEBER.COL UltraGres Fast	Not necessary,	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE	43	m² 3 hours	1 .!	
	GOBAIN / WEBER	Above 100x100	WEBER.COL UltraGres Fast + WEBER L50	according to manufacturer	1 bag (25 kg) + 6/6.2 litres of WEBER L50	S1	6 m <sup>2</sup>		1 day	
	ARDEX	Up to 100×100	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	

#### WALL INSTALLATION IN EXTERIORS

**Attachment A.3b** 

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
			ULTRALITE S2	Not necessary,	1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2	6.3 m <sup>2</sup>			
	MAPEI	All sizes	KERABOND + ISOLASTIC	according to manufacturer	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	6.5 m <sup>2</sup>	8 hours	14 days	
	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 m²	20 hours	3 days	
$\overline{\mathbb{X}}$				manuracturer	White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
For situations in which a	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days	Installation with double- buttering
normal setting adhesive is recommended	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 <sup>2</sup>	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 <sup>2</sup>	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 m²	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 m²	8 hours	1 day	
	MADEL	All since	ELASTORAPID	Not necessary,	Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2	6 m²	2 h	1	
	MAPEI All sizes	All sizes	ULTRALITE S2 QUICK	according to manufacturer	1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2	7 m²	3 hours	1 day	
	VED 11/01/	Up to		Not necessary,	Grey 1 bag (25 kg) from 6 to 7 litres of water	005.75				
2	KERAKOLL	100×100	H40 REVOLUTION	according to manufacturer	White 1 bag (25 kg) from 6 to 7.3 litres of water	C2F TE	6 m <sup>2</sup>	2 hours	1 day	
	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 <sup>2</sup>	6 hours	2 days	Installation with
For situations in which a quick setting adhesive is	LITOKOL	All sizes	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres LATEXKOL	C2 FE S2	5 m²	6 hours	1 day	double- buttering
recommended	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 <sup>2</sup>	3 hours	1 day	
	SAINT-	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary,	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE	, 3	21		
	SAINT- GOBAIN / WEBER Above 100x100	WEBER.COL UltraGres Fast + WEBER L50	according to manufacturer	1 bag (25 kg) + 6/6.2 litres of WEBER L50	S1	6 m <sup>2</sup>	3 hours	1 day		
	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 m²	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").

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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.4b**

#### WALL INSTALLATION IN EXTERIORS

**Attachment A.4a** 

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 (*)
	MAREL	Up to 120x120	KERABOND + ISOLASTIC ULTRALITE \$2	Not necessary,	1 bag (25 kg) + 8.5 kg of ISOLASTIC 1 bag (15 kg) + 5.9/6.2 litres	C2 E S2	5 m <sup>2</sup>	8 hours	14 days	
	MAPEI	120×260; 100×300	ULTRABOND ECO PU 2K KERALASTIK KERALASTIC T	according to manufacturer	of water 1 can (10 kg)	R2T R2 R2T	2.5 m <sup>2</sup>	12 hours	7 days	
	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 White 1 bag (25 kg) from 7.2 to 9.5 litres of water	C2 TE	6 m²	20 hours	3 days	
			H40 EXTREME		1 bucket (10 kg)	R2	4 m <sup>2</sup>	4 hours	12 hours	
For although and in	LATICRETE	All sizes	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	Installation with double- buttering
For situations in which a normal setting adhesive is recommended	LITOKOL	Up to 50x100	HYPERFLEX K100	Not necessary, according to	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m <sup>2</sup>	1 day	7 days	Duttering
	LITOROL	All sizes	LITOELASTIC EVO	manufacturer	1 bucket (10 kg)	R2T	4.5 m <sup>2</sup>	i 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 <sup>2</sup>	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 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	C2 T(T) E(E) S2	10 m²	8 hours	1 day	
			ULTRALITE		1 bag (15 kg)	C2 FE S2			2 days	
	MAPEI	Up to 120x120	S2 QUICK  ELASTORAPID	Not necessary, according to manufacturer	+ 6 litres of water Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2FTES2	4 m <sup>2</sup>	3 hours	1 day	_
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	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 m²	2 hours	1 day	
			H40 EXTREME		1 bucket (10 kg)	R2	4 m <sup>2</sup>	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 <sup>2</sup>	6 hours	2 days	
	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL	Not necessary,	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m <sup>2</sup>	6 hours	1 day	Installation with double-
For situations in which a quick setting adhesive is recommended	LITOROL	All sizes	LITOELASTIC EVO	according to manufacturer	1 bucket (10 kg)	R2T	4.5 m <sup>2</sup>	1 day	5 days	- buttering
recommended	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 m²	5 hours	1 day	
	SAINT- GORAIN /	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary,	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE	, ,	21		
	GOBAIN / WEBER	Above 100x100	WEBER.COL UltraGres Fast + WEBER L50	according to manufacturer	1 bag (25 kg) + 6/6.2 litres of WEBER L50	S1	6 m <sup>2</sup>	3 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 + 7.5 litres of water	C2 FT(T) E S2	10 m <sup>2</sup>	90 min.	6 hours	

#### WALL INSTALLATION IN EXTERIORS

5plus

Substrate: concrete.

At the discretion of P.S.	Supplier	Size of slabs (cm)	Product (*X (****)	Primer, if necessary (*) (****)	Mixing ratio	Class (*)	Nominal yield (*)	Set for light foot traffic and ready for grouting times	Ready for use (***)	Installation (*)
		Up to 120x120	KERABOND + ISOLASTIC	N.	1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2	5 m²	8 hours	14 days	
	MAPEI	120×260;	ULTRALITE S2  ULTRABOND ECO PU 2K	Not necessary, according to manufacturer	1 bag (15 kg) + 5.9/6.2 litres of water 1 can (10 kg)	C2 E S2 R2T	3 m <sup>2</sup>	12 hours	7 days	_
		100x300	KERALASTIK KERALASTIC T			R2 R2T	2.5 m	12 nours	7 days	
	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 White 1 bag (25 kg) from 7.2 to 9.5 litres of water	C2 TE	6 m²	20 hours	3 days	
			H40 EXTREME		1 bucket (10 kg)	R2	4 m <sup>2</sup>	4 hours	12 hours	1
	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days	Installation
For situations in which a normal setting adhesive is recommended	LITOKOL	Up to 50x100	HYPERFLEX K100	Not necessary, according to	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m <sup>2</sup>	1 day	7 days	- buttering
is recommended		All sizes	LITOELASTIC EVO	manufacturer	1 bucket (10 kg)	R2T	4.5 m <sup>2</sup>		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 <sup>2</sup>	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 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	C2 T(T) E(E) S2	10 m <sup>2</sup>	8 hours	1 day	
			ULTRALITE		1 bag (15 kg)	C2 FE S2			2 days	
	MAPEI	Up to 120x120	S2 QUICK  ELASTORAPID	Not necessary, according to manufacturer	+ 6 litres of water  Component A:  1 bag (25 kg)  Component B: tub (6.5 kg)	C2 FTE S2	4 m²	3 hours	1 day	_
	KERAKOLL	All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	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	C2 FTE	6 m²	2 hours	1 day	
			H40 EXTREME		1 bucket (10 kg)	R2	4 m <sup>2</sup>	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 <sup>2</sup>	6 hours	2 days	
For situations	LITOKOL	Up to 50x100	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (20 kg) + 6 litres of LATEXKOL	C2 FE S2		6 hours	1 day	Installation with double buttering
in which a quick setting adhesive		All sizes	LITOELASTIC EVO		1 bucket (10 kg)	R2T	4.5 m <sup>2</sup>	1 day	5 days	-
is recommended	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 m²	5 hours	1 day	
	SAINT- GOBAIN /	Up to 100x100	WEBER.COL UltraGres Fast	Not necessary, according to	1 bag (25 kg) + 6/6.2 litres of water	C2 FTE	6 m <sup>2</sup>	3 hours	1 day	
	WEBER	Above 100x100	WEBER.COL UltraGres Fast + WEBER L50	manufacturer	1 bag (25 kg) + 6/6.2 litres of WEBER L50	S1				
	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 m²	90 min.	6 hours	

Instructions provided directly by manufacturers, who guarantee the information given.

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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").

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## **Attachment A.5a**

#### FLOOR INSTALLATION IN INTERIORS/EXTERIORS(\*)

3plus

5plus 6plus

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

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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 (*)			
	MAPEI	Up to 120x120 APEI 120x260; 100x300	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 <sup>2</sup>	- 8 hours	14 days				
			ULTRALITE S1		1 bag (15 kg) + 8.4/8.7 litres of water	C2 TE S1							
	WALL		KERABOND + ISOLASTIC		1 bag (25 kg) + 8.5 kg of ISOLASTIC	C2 E S2							
			ULTRALITE S2		1 bag (15 kg) + 5.9/6.2 litres of water	C2 E S2							
	KERAKOLL					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	· C2 TE	6 m²	20 hours	3 days	
	KERAKOLL	ERAKOLL All sizes			kg) from 7.2 to 9.5 litres of water					Installation with double-			
			H40 EXTREME	For gypsum-based surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	buttering			
For situations in which a normal setting adhesive is recommended	LATICRETE	All sizes	254 PLATINUM	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of water	C2 TE S1	5 m²	1 day	7 days				
		LITOKOL All sizes			41 (201.)	C2 TE S1	1 5 m <sup>2</sup>						
	LITOKOL		HYPERFLEX K100	For gypsum-based or self-levelling surfaces: Prepare EVO Base	1 bag (20 kg) + 6/6.4 litres of water	C2 TE S2	5.5 m <sup>2</sup>	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 <sup>2</sup>	12 hours	3 days				
	SAINT- GOBAIN /	OBAIN / All sizes	WEBER.COL ProGres Top S1 WEBER.COL UltraGres Evo WEBER.COL UltraGres 400 WEBER.COL UltraGres Light	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 m²	8 hours	14 days				
	WEBER				1 bag (25 kg) + 6.7/7 litres of WEBER L50								
	ARDEX	All sizes	ARDEX X S 28 New Microtec	For gypsum- and anhydrite-based, absorbent or polished surfaces: ARDEX P 51	1 bag (25 kg) + 7.5 to 9 litres of water	C2 FTE S1	6 m²	4 hours	1 day	Installation with single- buttering (trowel with 12 mm tilted teeth or ARDEX Microtec			

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.

### FLOOR INSTALLATION IN INTERIORS/EXTERIORS(\*)

6mm

3plus

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 (*)
	MAPEI	Up to	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	3.5 m <sup>2</sup>	- 3 hours	3 days	Installation with double- buttering
		50x100  PEI  Above 50x100	ULTRALITE S1 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FTE S1				
			ULTRALITE \$2 QUICK		1 bag (15 kg) + 5.1/5.7 litres of water	C2 FE S2				
			ELASTORAPID		Component A: 1 bag (25 kg) Component B: tub (6.5 kg)	C2 FTE S2				
	KERAKOLL	OLL 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		6 m²	2 hours	1 day	
			H40 REVOLUTION		White 1 bag (25 kg) from 6 to 7.3 litres of water	C2F TE				
For situations in which a quick			H40 EXTREME	For gypsum-based or anhydride surfaces: SLC ECO EP 21	1 bucket (10 kg)	R2	4 m²	4 hours		
setting adhesive is recommended	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 <sup>2</sup>	6 hours	2 days	
	LITOKOL PCI - BASF	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 m²	6 hours	1 day	
		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 m²	5 hours	1 day	
	SAINT- GOBAIN / WEBER	GOBAIN / 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 m²	3 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 ARDEX E 90 + 7 litres of water	C2 FE S2	6 m <sup>2</sup>	90 min.	6 hours	Installation with single- buttering (trowel with 10 mm tilted teeth or ARDEX Microtec trowel)

<sup>(\*)</sup> 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"). 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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Product names shown may vary by country in relation to the commercial assessment of the manufacturer.

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ATTACHMENT

PROFILES

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Z <

5plus

#### FLOOR INSTALLATION IN INTERIORS/EXTERIORS(\*)

**Attachment A.5b** 

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 (*)
	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 <sup>2</sup>	12 hours	7 days	
	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 m²	20 hours	3 days	Installation
For situations in		All sizes	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	with double- buttering
	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	5 days	
which a normal setting adhesive is recommended	LITOKOL	All sizes	LITOELASTIC EVO	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	4.5 m <sup>2</sup>	1 day	5 days	
	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1.5 m <sup>2</sup>	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 <sup>2</sup>	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 m²	4 hours	1 day	Installation with single-buttering (trowel with 12 mm tilted teeth or ARDEX Microtec trowel)
	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 <sup>2</sup>	12 hours	7 days	
	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 m²	2 hours	1 day	
		All sizes	H40 EXTREME	Not necessary, according to manufacturer	1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	Installation with double- buttering
For situations in which a quick setting adhesive is recommended	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	5 days	
	LITOKOL	All sizes	LITOELASTIC	Not necessary, according to manufacturer	1 bucket (10 kg)	R2T	3 m <sup>2</sup>	12 hours	7 days	
	PCI - BASF	All sizes	PCI COLLASTIC	Not necessary, according to manufacturer	3 kg bucket (A+B)	R2T	1.5 m <sup>2</sup>	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 <sup>2</sup>	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 m²	90 min.	6 hours	Installation with single-buttering (trowel with 10 mm tilted teeth or ARDEX

<sup>(\*)</sup> 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.

#### **OUTDOOR FLOOR INSTALLATION NOT SUITABLE FOR VEHICULAR PASSAGE(\*)**

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 (***)	Installatio
			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 <sup>2</sup>	20 hours	3 days	Installation with double buttering
	KERAKOLL	. All sizes			White 1 bag (25 kg) from 7.2 to 9.5 litres of water					
			H40 EXTREME		1 bucket (10 kg)	R2		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 <sup>2</sup>	24 hours	7 days	
For situations in which a normal setting adhesive is recommended			WEBER.COL ProGres Top \$1	Not necessary, according to manufacturer	1 bag (25 kg) + 6.7/8 litres of water	C2TES1	6 m²	8 hours	14 days	
	SAINT- GOBAIN / WEBER	AIN / All sizes	WEBER.COL UltraGres Evo							
			WEBER.COL UltraGres 400							
			WEBER.COL UltraGres Light		1 bag (25 kg) + 6.7/7 litres of WEBER L50					
	KERAKOLL All sizes	ERAKOLL All sizes	H40 REVOLUTION	Not necessary, according to manufacturer	Grey 1 bag (25 kg) from 6 to 7 litres of water			2 hours	1 day	
							6 m <sup>2</sup>			
·					White 1 bag (25 kg) from 6 to 7.3 litres of water					
For situations in which a quick setting adhesive is recommended		H40 EXTREME		1 bucket (10 kg)	R2	4 m²	4 hours	12 hours	Installation with double- buttering	
	LITOKOL	Up to 100x100	LITOSTONE K99 + LATEXKOL	Not necessary, according to manufacturer	1 bag (25 kg) + 6 litres of LATEXKOL	C2 FE S2	5 m²	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 m²	3 hours	1 day	

<sup>(\*)</sup> 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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