



LATEXKOL

HIGH ELASTICITY SYNTHETIC LATEX FOR CEMENTITIOUS ADHESIVES



*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présent sur un risque de santé par inhalation, sur une échelle de classe allant de A+ (meilleure émission) à C (pire émission).

DESCRIPTION

High-elasticity aqueous-dispersion synthetic latex based on acrylic polymers.

PACKAGING

20 kg cans - Standard pallet 720 kg
 10 kg cans - Standard pallet 600 kg
 5 kg cans - Standard pallet 600 kg

CLASSIFICATION EN 12004

Cementitious adhesives Class 1 + 30% 1:1 water/Latexkol mixture (see K21/K22)
 Class C2-S1 Deformable enhanced cementitious adhesive
 Cementitious adhesives Class 1 + 33% LATEXKOL (see K21/K22)
 Class C2-S2 Highly-deformable enhanced cementitious adhesive

FIELDS OF APPLICATION

Liquid additive for mixing with Cementkol K21 and Cementkol K22 cementitious adhesives as a partial or total substitute for water. The additive gives the adhesive a high degree of deformability and improves its performance, making it suitable for heavy-duty applications (see application chart).

SUBSTRATES

*Pre-treated with PRIMER X94 or PRIMER	MINIMUM	MAXIMUM RESIDUAL	GENERAL
Cementitious screeds	28 days	3%	
LITOCEM screeds	24 hours	3%	
Anhydrite screeds*	-	< 0.5%	Clean
Concrete	4 months	-	Solid and compact
Cementitious plaster	1 week per cm thicknes	-	Free from cracks
Gypsum-based plaster*	-	< 0.5%	Flat and level
			Sufficiently cured

MIXING RATIOS

Cementitious adhesives class C1 25 kg (1 bag)	Class C2-S1 WATER 3.75 l (15%) + LATEXKOL 3.75 kg (15%)	Class C2-S2 LATEXKOL 8.25 kg (33%)
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MIX PREPARATION

Pour the correct quantity of liquid into a clean container and slowly add the powder.

Mix with an electric drill equipped with mixing paddle until a uniform, lump-free mix is obtained. Leave the mix to sit for at least 5 minutes then re-mix briefly for a few seconds.

APPLICATION

Spread the mix onto the substrate using the smooth part of the

trowel to create a layer of about 1 mm thickness. Immediately afterwards comb using the notched part of the trowel.

The trowel notch size must be chosen according to the size of the tiles.

In any case it must assure 65-70% coverage of the back of the tiles for interior installation and 100% for exterior installation or floors subject to intense traffic.

In exterior installations or areas subject to high stress, it is advisable to apply the adhesive additionally to the back of the tiles (back-buttering method).

LAYING THE TILES

Place the tiles on the adhesive and press firmly to assure good contact. In the same temperature and moisture conditions, adhesive mixed with LATEXKOL has a shorter open time than adhesive mixed solely with water.

It may even be reduced to just a few minutes in very hot or windy weather or with highly absorbent substrates.

It is advisable to check frequently that the adhesive has not skinned over.

If it has, comb the surface of the adhesive again using the notched trowel.

Tiles must be laid with grout joints of adequate width for their size.

Butt-jointing (tiles touching) is not recommended.

Take account of movement or control joints during installation.

Leave a space of at least 5 mm next to walls or vertical elements.

The tiled surface must be protected for at least 24 hours from water and for about 5-7 days from frost and direct sunlight.

GROUTING

The joints between tiles can be grouted after about 6-8 hours in the case of wall tiles or 24 hours in the case of floor tiles. Grouting can be carried out using cementitious grouts LITOCROM 0-2, LITOCROM 1-6, LITOCROM 3-15.

In the case of acid-resistant floors, we recommend using two-part epoxy grout STARLIKE or EPOXYSTUK X90.

CAUTIONS

Cementitious adhesive mixed with LATEXCOL has a shorter open time than adhesive mixed solely with water.

Since the additive is a latex in aqueous dispersion, it is susceptible to frost damage. Transport and store the product at temperatures no lower than +5°C.

Do not keep product contained in the cans in direct sunlight or in very hot areas.

Apply at temperatures of between +5°C and +35°C.

Do not use for applications not stated on this technical sheet.

For correct use, refer to the application chart on the technical sheet

IDENTIFICATION DATA

Appearance	Liquid
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Colour	White
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Solids content	34-36%
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Viscosity	20-30 mPa s
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pH	7-8
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Classification to EN 12004	Cementkol K21/K22 + 30% water/Latexkol mixture 1:1 = C2-S1 Cementkol K21/K22 + 33% Latexkol= C2-S2
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Customs code	3906 90 00
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Shelf life	24 months in original packaging in dry place. Susceptible to frost damage
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APPLICATION DATA

Maturing time	5 minutes
Mix consistency	Very creamy
Pot life	Over 8 hours
Application temperature	From +5°C to +35°C
Open time (EN 1346)	> 0.5 N/mm ² after 20 minutes
Maximum applicable thickness	5 mm
Adjustability time	About 40 minutes

	Tile size (cm)	Recommended trowel size (mm)	Consumption (kg/m ²)	
			K21/K22	Latexkol (33%)
Consumption	10X10 15X15	6	2,5	0,8
	15X20 25X25	6-8	2,5-3	0,8-1
	25X33 33X33	8-10	3,5-4	1,2-1,3
	30X45 45X45	10 back-buttering	4,5-5	1,5-1,7
	50X50 60X60	10 back-buttering	5	1,7
	Over	10 back-buttering	> 5	2,3

Walk on time	24 hours
Ready for use	14 days
Ready for grouting	Floor: about 24 hours Wall: about 4-8 hours

PERFORMANCE	Cementitious adhesives Class 1 + 30% 1:1 water/Latexkol mixture	Cementitious adhesives Class 1 + 33% Latexkol
Adhesion strength after 28 days EN 1348	> 1 N/mm ²	> 1 N/mm ²
Adhesion strength after immersion in water EN 1348	> 1 N/mm ²	> 1 N/mm ²
Adhesion strength after action of heat EN 1348	> 1 N/mm ²	> 1 N/mm ²
Adhesion strength after freeze-thaw cycles EN 1348	> 1 N/mm ²	> 1 N/mm ²
Transverse deformation EN 12002	> 2.5 mm (class S1)	> 5 mm (class S2)
Temperature of use	From -30°C to +90°C	
Resistance to acids	No	
Resistance to alkalis	Good	

INFORMATION ON SAFETY

Refer to the product's safety sheets available upon request.

PRODUCT FOR PROFESSIONAL USE

APPLICATION CHART - POSSIBLE APPLICATIONS

SUBSTRATES	SIZE (cm)	Mosaic 1 x 1 5 x 5	10x10 15x15	15x20 25x25	25x33 33x33	30x45 45x45	50x50 60x60	Over
PAVIMENTI INTERNI	Joint (mm)	1,5 - 3	1 - 4	2 - 6	3 - 7	4 - 10	6 - 12	10 - 16
Cured floating or separated cementitious screeds			●	●	●	●	●	●
Dry anhydrite screeds sandpapered and treated with PRIMER C			●	●	●	●	●	●
Existing concrete floors (cleaned and degreased)			●	●	●	●	●	●
Ceramic tile, stone or agglomerate floors (cleaned and degreased)			●	●	●	●	●	●
Heated cementitious screeds after pre-heating cycle			●	●	●	●	●	●
Surfaces treated with HIDROFLEX			●	●	●	●	●	●
Concrete structures cured for at least 6 months			●	●	●	●	●	●
Metal or wood surfaces Existing PVC, rubber or linoleum floors								
INTERIOR WALLS	Joint (mm)	1,5 - 3	1 - 4	2 - 6	3 - 7	4 - 10	6 - 12	10 - 16
Cementitious plaster on cured masonry			●	●	●	●	●	●
Dry plaster or gypsum panels treated with PRIMER C or PRIMER X94			●	●	●	●	●	●
Cured light block masonry			●	●	●	●	●	●
Existing solid ceramic walls (cleaned and degreased)			●	●	●	●	●	●
Gypsum board sanded and treated with PRIMER C or PRIMER X94			●	●	●	●	●	●
Surfaces treated with HIDROFLEX			●	●	●	●	●	●
Cast or prefabricated concrete structures cured for at least 6 months			●	●	●	●	●	●
Metal or wood surfaces								
EXTERIOR FLOORS	Joint (mm)	1,5 - 3	3 - 6	5 - 8	7 - 10	10 - 12	12 - 14	> 14
Cured floating or separated cementitious screeds			●	●	●	●	●	●
Existing concrete, ceramic tile or stone floors			●	●	●	●	●	●
Concrete structures cured for at least 6 months			●	●	●	●	●	●
Surfaces treated with ELASTOCEM			●	●	●	●	●	●
EXTERIOR WALLS	Joint (mm)	1,5 - 3	3 - 6	5 - 8	7 - 10	10 - 12	12 - 14	> 14
Cementitious plaster on cured masonry			●	●	●	●	●	●
Cast or prefabricated concrete structures cured for at least 6 months			●	●	●	●	●	●
Surfaces treated with ELASTOCEM			●	●	●	●	●	●
KEY								
● Application possible with Cementkol K21/K22 + 28% WATER								
● Application possible with Cementkol K21/K22 + 30% di Latexkol DILUTED 1:1 WITH WATER								
● Application possible with Cementkol K21/K22 + 33% di Latexkol								
Per quanto le informazioni riportate in questa scheda tecnica siano il frutto della nostra migliore esperienza, hanno un valore puramente indicativo. Ogni caso specifico deve essere sottoposto a prove pratiche preliminari da parte dell'utilizzatore che si assume la responsabilità dell'esito finale del lavoro.								
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