



LITOFLOTT K88

HIGH-PERFORMANCE SELF-WETTING FAST-SETTING AND FAST-DRYING CEMENTITIOUS ADHESIVE WITH LONG OPEN TIME FOR CERAMIC TILES AND NATURAL STONE. SUITABLE FOR INSTALLATION OVER EXISTING TILES



DESCRIPTION

Grey powder adhesive consisting of special hydraulic binders, inert fillers of selected particle size and organic additives..

PACKAGING

25 kg bags

Standard pallet 1500 kg

CLASSIFICATION EN 12004

LITOFLOTT K88 + 24% WATER

Class 2CFE

Enhanced fast-setting cementitious adhesive with long open time

FIELDS OF APPLICATION

Suitable for fixing any kind of ceramic floor tile, including large-formats, in interiors or exteriors. See application chart. Also suitable for gluing natural and reconstituted stone with the exception of materials subject to large dimensional deformations such as. green marble, sandstone, pietra serena.

SUBSTRATES	MINIMUM CURING TIME	MAXIMUM RESIDUAL MOISTURE CONTENT	GENERAL CONDITIONS
*Pre-treated with PRIMER X94 or PRIMER C.			
Cement-based screeds	28 days	3%	Clean Solid and compact Free from cracks Flat and level Sufficiently cured
LITOCER screeds	24 hours	3%	
Anhydride screeds*	-	< 0,5%	
Concrete	6 months	-	

EXPANSION JOINTS

Movement joints have the function of interrupting the continuity of the tiled surface, thereby compensating for dimensional changes and deformations affecting the tiles, adhesive and substrate. The joints must always extend through both the bedding layer and the tiles.

RECOMMENDED SPACING	INTERIORS	EXTERIORS
	Squares from 6x6 m to 10x10 m	Squares from 3x3 m to 5x5
WIDTH OF JOINTS	Floors: ≥ 6 mm Walls: 6 mm (never < 3 mm)	Squares 3x3: 10 mm Squares 5x5: 12-13 mm
SUITABLE SEALING PRODUCTS	PVC, aluminium or steel strips depending on expected traffic Silicone sealants	Silicone sealants

APPLICATION

MIXING RATIOS

LITOFLOTT K88 25 kg. (1 bag) - Water 6 L (24%)

MIX PREPARATION

Pour the correct quantity of water 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 rest for at least 5 minutes then re-mix briefly for a few seconds. Pot life is about 60 minutes at a temperature of +23°C. Be sure to mix only the quantity of product that you can actually use within this period of time.

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. The semi-fluid consistency of the

product mixed with water allows for 100% wetting of the backs of the tiles (total absence of gaps) with having to resort to the back-buttering method. It is therefore ideal for exterior applications or for floors subject to intense traffic.

LAYING THE TILES

Place the tiles on the adhesive and press firmly to assure good contact. The product's open time in normal conditions of temperature and humidity is 20 minutes. However, this may be reduced to just a few minutes in very hot or windy weather. 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 expansion or control joints during installation. Leave a space of at least 5 mm in the vicinity of 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 4 hours. Grouting can be carried out using cementitious grouts LITOCROM 0-2, LITOCROM 1-6, LITOCROM 3-15, LITOCROM FLEX 3-10.

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

WARNINGS

- Do not add lime or cement to the product.
- Apply the product at temperatures of between +5°C and +30°C.
- Do not use for applications not stated on this technical sheet.
- For correct use, refer to the application chart on the technical sheet.
- Pot life is about 60 minutes at a temperature of +23°C. Be sure to mix only the quantity of product that you can actually use within this period of time.
- Do not use for gluing stone subject to significant size deformation, such as: green marble, sandstone, pietra serena
- Do not use on walls or non-horizontal surfaces.

IDENTIFICATION DATA

Appearance	Powder
Colour	Grey
Classification to EN 12004	C2FE – Enhanced fast-setting cementitious adhesive with long open time
Customs code	3824 5090
Shelf life	12 months in original packaging in dry place

APPLICATION DATA

Mixing ratios	Water = 24% (6 l per 25 kg bag)		
Maturing time	5 minutes		
Mix consistency	Creamy		
Pot life	Over 8 hours		
Application temperature	From +5°C to +35°C		
Open time (EN 1346)	≥ 0.5 N/mm ² after 30 minutes		
Maximum applicable thickness	7 – 8 mm		
Adjustability time	About 30 minutes		
Consumption	Tile size (cm)		Recommended trowel size (mm)
	10 x 10	15 x 15	6
	15 x 20	25 x 25	6 - 8
	25x33	33x33	8 - 10
	30x45	45x45	15
	50x50	60x60	7
Walk on time	24 hours		
Ready for use	14 days		
Ready for grouting	Floor: about 24 hours - Wall: about 6-8 hours		

PERFORMANCE

Adhesion strength after 6 hours (EN 1348)	$\geq 0.5 \text{ N/mm}^2$
Bonding strength after 28 days (EN 1348)	$\geq 1 \text{ N/mm}^2$
Bonding strength after immersion in water (EN 1348)	$\geq 1 \text{ N/mm}^2$
Bonding strength after action of heat (EN 1348)	$\geq 1 \text{ N/mm}^2$
Bonding strength after freeze-thaw cycles (EN 1348)	$\geq 1 \text{ N/mm}^2$
Temperature of use	From -30°C to $+90^{\circ}\text{C}$
Resistance to acids	No
Resistance to alkalis	Good

SAFETY INFORMATION

Consult the Material Safety Data Sheet, available on request.

PRODUCT FOR PROFESSIONAL USE.

APPLICATION CHART

SUBSTRATES	SIZES (cm)	Mosaic 1 x 1 5 x 5	10x10 15x15	15x20 25x25	25x33 33x33	30x45 45x45	50x50 60x60	OVER
INTERIOR FLOORS	JOINTS (mm)	1,5 - 3	1 - 4	2 - 6	3 - 7	4 - 10	6 - 12	10 - 16
Cured floating or separated cement-based screeds			●	●	●	●	●	
Dry anhydride screeds sandpapered and treated with PRIMER C or PRIMER X94			●	●	●	●	●	
Existing concrete floors (cleaned and degreased)			●	●	●	●	●	
Ceramic tile, stone or agglomerate floors (cleaned and degreased)			●	●	●	●	●	
Heated cement-based 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	JOINTS (mm)	1,5 - 3	1 - 4	2 - 6	3 - 7	4 - 10	6 - 12	10 - 16
Cement-based 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 sandpapered 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	JOINTS (mm)	1,5 - 3	3 - 6	5 - 8	7 - 10	10 - 12	12 - 14	> 14
Cured floating or separated cement-based screeds			●	●	●	●		
Existing concrete, ceramic tile or stone floors			●	●	●	●		
Concrete structures cured for at least 6 months								
Surfaces treated with ELASTOCEM			●	●	●	●		
EXTERIOR WALLS	JOINTS (mm)	1,5 - 3	3 - 6	5 - 8	7 - 10	10 - 12	12 - 14	> 14
Cement-based plaster on cured masonry								
Cast or prefabricated concrete structures cured for at least 6 months								
Surfaces treated with ELASTOCEM								

KEY

● Application possible with Litoflott K88 + 24% water

Although the information provided on this technical sheet represents the best of our knowledge and experience, it is intended purely as a guideline.
 The user must carry out preliminary practical tests for each specific job and is solely responsible for the final result..

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