



UNIVERSAL ADHESIVE LK78

READY TO USE DISPERSION ADHESIVE WITH LONG OPEN TIME FOR THE LAYING OF CERAMIC TILES



DESCRIPTION

Synthetic resin-based dispersion adhesive in aqueous emulsion, very fine inert fillers and organic additives.

PACKAGING

2.5 kg cans - 555 kg Pallet Eur
5 kg buckets - 875 kg Pallet Eur
10 kg buckets - 720 kg Pallet Eur
25 kg buckets - 750 kg Pallet Eur

EN 12004 CLASSIFICATION

UNIVERSAL ADHESIVE LK78

Class D1E

Normal dispersion adhesive with extended open time

FIELDS OF APPLICATION

Suitable for gluing interior small-sized ceramic tiles or mosaics on floors or walls. See chart.

It is also suitable for gluing in interior floors, walls and ceiling panels in polystyrene and expanded polyurethane, glass wool, rock wool, sound-absorbing panels on absorbent substrates.

SUBSTRATES	MINIMUM TIME OF CURING	MAXIMUM RESIDUAL MOISTURE	GENERAL CONDITIONS OF USE
Cementitious screeds	28 days	3%	Clean solid and compact. Free of cracks or splitting. On floors and ceilings. Sufficiently cured.
Screeds in LITOCEM	24 hours	3%	
Anhydrite screeds	-	< 0.5%	
Concrete	6 months	-	
Cementitious plasters	1 week per cm. of thickness	-	
Gypsum-based plasters	-	< 0.5%	

DILATION JOINTS

Dilation joints have the function to interrupt the continuity of the tiled surface in order to compensate for dimensional variations and deformations affecting multilayer system consisting of tiles, of the adhesive and of the substrate. The joints must always involve both the bed layer and the tiles.

RECOMMENDED FRACTIONING	COATINGS
	Areas from 6x6 m up to 10x10 m
JOINT WIDTH	Pavements: ≥ 6 mm Covering: 6 mm (never < 3 mm)
SUITABLE PRODUCTS FOR SEALING	<ul style="list-style-type: none"> • Profiles in PVC, aluminium, steel based on the use. • Silicone sealants

Application

The product is ready for use and does not require any preparation. Apply the product with a notched trowel directly onto the substrate. The notches of the trowel must be chosen based on the format of the tiles to be laid. In any case, it must allow wetting of the reverse side of the tiles by 65-70%.

Installation of the tiles

The tiles are laid on the adhesive using a firm pressure in order to ensure contact with the adhesive. The open time the product in normal temperature and humidity conditions is approximately 30 minutes. Very hot or windy climates or very absorbent substrates can reduce the time significantly to a few minutes. It is therefore recommended to frequently check that the adhesive has not formed a surface film. If a superficial skin has formed it is necessary to go over the adhesive with the notched trowel. The tiles must be laid creating grout joints with widths suitable to their format. The installation with united joints (juxtaposed tiles) is not recommended. During installation, respect any expansion or splitting joints. Leave a space of at least 5 mm at the walls or at any surface elevation.

The commissioning of tiled surfaces may occur after about 7-10 days depending on the absorption of the substrate and the environmental conditions.

Grouting of tiled surfaces

The grout joints between the tiles can be sealed after 6-8 hours in the case of claddings and after 24 hours for floors. Cement-based Litochrom 0-2, Litochrom 1-6, Litochrom 3-15 sealants, Starlike[®] Monomix polymer mortar or two-component Starlike[®] and Epoxystuk X90 epoxy sealants may be used for sealing.

Gluing of insulated panels

It can be carried out using a notched trowel to that point while observing the open time of the product. In any case, the quantity of adhesive applied should be sufficient to ensure a good bonding of the panels. The slabs will then be put in place by pressing firmly in order to obtain a good degree of adhesion.

Warnings

Do not add lime, cement or water to the product.

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

The product is in aqueous dispersion and hardening occurs by water evaporation. Check that the substrate or tiles have a sufficient absorption grade to allow the adhesive to dry.

Do not use the product to lay non-absorbent tiles onto non-absorbent substrates.

Do not use the product to lay ceramic tiles on exterior

surfaces or in continuous contact with water such as tanks, swimming pools, etc.

Since the product is synthetic resin-based in aqueous dispersion, it is frost sensitive. During transfer and storage of the packages in the warehouse, ensure that the temperature is never below +5°C so as not to compromise the quality of the product.

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

Consult the chart for a correct choice.

IDENTIFICATION DATA	
Appearance	Dense mixture
Colour	White
EN 12004 classification	D1E - Normal dispersion adhesive with extended open time
Custom classification	35069190
Preservation time	24 months in its original packaging. Protect from frost

PERFORMANCE	
Shear adhesion at initial cutting (EN 1324)	≥ 1 N/mm ²
Shear adhesion after heating (EN 1324)	≥ 1 N/mm ²
Flexibility	Yes
Temperature of use	From -30°C to +90°C
Resistance to acids	Poor
Resistance to alkalis	Poor

APPLICATION DATA			
Application temperatures allowed	from +5°C to +35°C		
Open time (EN 1346)	> 0,5 N/mm ² after 30 minutes		
Setting	Approximately 60 minutes		
Consumption	Tile size (cm)	Recommended trowel (mm)	Consumption (kg/m²)
	1x1 5x5	4	1.5
	10x10 15x15	6	2 - 2.5
	15x20 25x25	6 - 8	2.5 - 3
	INSULATING MATERIAL	-	0.8 - 2.5
Walkable after	24 hours		
Waiting time before commissioning	7-10 days		
Waiting time before grouting	Approx. 24 hours		



CHART - POSSIBLE APPLICATIONS								
SUBSTRATES	SIZES (cm)	Mosaic	10 x 10	15 x 20	25 x 33	30 x 45	50 x 50	OTHER
		s 1 x 1 5 x 5	15 x 15	25 x 25	33 x 33	45 x 45	60 x 60	
INDOOR FLOORING	JOINTS (mm)	1.5 - 3	1 - 4	2 - 6	3 - 7	4 - 10	6 - 12	10 - 16
Separate cement-based or cured floating screeds		●	●					
Dried anhydrite screeds, sanded and treated with primer application with PRIMER C								
Existing pavements in cement, cleaned and degreased								
Existing floors in ceramic, stone, tiles, cleaned and degreased								
Cement-based heating screeds after their pre-heating cycle		●	●					
Surfaces treated with HIDROFLEX								
Structures in concrete cured at least 6 months		●	●					
Metal or wood surfaces, existing floors in PVC, rubber, linoleum								
INDOOR FLOORING	JOINTS (mm)	1.5 - 3	1 - 4	2 - 6	3 - 7	4 - 10	6 - 12	10 - 16
Cementitious plaster on cured walling		●	●	●				
Plaster on gypsum panels		●	●	●				
Walling in light cured blocks		●	●	●				
Old covering in solid ceramic cleaned and degreased								
Plasterboard		●	●	●				
Surfaces treated with HIDROFLEX								
Cast concrete or prefabricated structures cured at least 6 months,		●	●	●				
Metal or wood surfaces								
OUTDOOR FLOORING	JOINTS (mm)	1, 5 - 3	3 - 6	5 - 8	7 - 10	10 - 12	12 - 14	> 14
Separate cement-based or cured floating screeds								
Existing pavements in cement, ceramic and stone								
Structures in concrete cured at least 6 months								
Surfaces treated with ELASTOCEM								
OUTDOOR COATING	JOINTS (mm)	1, 5 - 3	3 - 6	5 - 8	7 - 10	10 - 12	12 - 14	> 14
Cementitious plaster on cured walling								
Cast concrete or prefabricated structures cured at least 6 months								
Surfaces treated with ELASTOCEM								

KEY

- Possible application with Universal Adhesive LK78



Although the information in this technical chart is source of our best experience, it is merely indicative.

Each specific case must be subjected to practical preliminary tests by the user who undertakes the responsibility for the final work result.

Sheet No. 200
Revision No. 3
Date: January 2017

LITOKOL S.p.A.

Via G. Falcone, 13/1 42048 Rubiera (RE) Italy
Tel. +39 0522 622811 Fax +39 0522 620150
www.litokol.it email: info@litokol.it

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

www.litokol.it