

KL 101

ADHESIVE FOR AERATED CONCRETE BLOCKS

A powerful product for aerated concrete building elements.

Description : Ready white mortar, based on high-strength Portland white cement, aggregates of selected granulometry and special additives to improve adhesiveness.

Usages : Use it as a bonding material for the fixing of structural elements made of aerated concrete (e.g YTONG), as well as other similar elements, on both outdoor and indoor brickworks. Also use for the adhesion of other building materials such as decorative bricks, etc



Advantages:

- Compatible with all types of aerated concrete
- High strength
- High adhesiveness.
- Moisture- and frost-proof
- Indoor and outdoor use
- Easy to apply - simply add water
- Incomparable quality of raw materials.

Packaging /distribution :

- Bags of 25 kg.
- Palette of 1500 kg, 60 paper bags


Storage: 12 months from the date of production in unopened package, in a dry place

Safety precautions : This product contains cement and reacts as alkaline with moisture, so it is classified as irritant. It must be used with care according to the instructions for use. In order to avoid any injuries due to alkalis of the cement, wear gloves, protective glasses and avoid breathing the dust. Please consult the SDS of the product.

Specifications : EN 12004 (C1T) & EN 998-2

TECHNICAL DATA:

Colour:	White
Granulometry:	max. 0.5 mm
Specific gravity of wet mortar:	1980 kg /m ³
Compressive strength at 28 days:	≥12.0 MPa (EN 1015-11)
Flexural strength at 28 days:	≥2.5 MPa (EN 1015-11)
Adhesion strength:	
<i>Average values based on production control laboratory tests:</i>	
On concrete after 28 days:	1.0 N/mm ² (EN 1348)
After heating at 70°C:	0.8 N/mm ² (EN 1348)
In water:	0.8 N/mm ² (EN 1348)
After 25 cycles of freezing - thawing:	0.7 N/mm ² (EN 1348)
Open time for application:	Up to 20 minutes
Time for minor corrections:	5 minutes

 12 DoP: 034 MARMO-CPR
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens/ Greece
MARMOLINE KL 101
EN 12004:2007+A1:2012 Cementitious adhesive for tiles
Initial tensile adhesion strength: ≥ 0,5 N/mm ² Tensile adhesion strength after heat ageing: ≥ 0,5 N/mm ² Tensile adhesion strength after water immersion: ≥ 0,5 N/mm ² Tensile adhesion strength after freeze/thaw cycles: ≥ 0,5 N/mm ² Reaction to fire: <i>Class A1</i>
EN 998-2:2016 Mortar for masonry
Proportion of constituents: Cement & additives: 30 % Aggregates: 70 % Contents of chloride: < 0.1 % Cl Water absorption: 0.3 kg/(m ² ·min ^{0.5}) Water vapour permeability: μ 5/20 Thermal conductivity/density: (λ _{10,dry}) 0.38 W/mK (tab. mean value; P= 50%) Durability (against freeze/thaw, in the intended place of use): <i>Evaluated as excellent, after laboratory and field tests</i>

APPLICATION:

Mixing ratio: 6.5 - 7 lt of water /bag of 25 kg

Consumption: 1 bag of 25 kg is needed for 1.4 – 1.6 m³ of aerated concrete.

- Application mode:**
- Mix the adhesive with water, in a clean bucket and stir with an electric mixer until you get the desired fluidity.
 - Distribute the adhesive uniformly on the aerated concrete elements, with a spatula or a trowel, to a thickness up to 2 mm.
 - Fix/build the aerated concrete elements within 10 minutes after laying the mortar, otherwise you should remove the mortar and lay it again.
 - The same mortar can also be used for the joint-filling of elements as well as for local puttying of brickwork surfaces.

ATTENTION:

- The content of the bag should be protected from humidity
- Do not add excessive amounts of water because this can reduce the product's strength and cause cracks
- Not recommended for use in extreme weather conditions (frost or heatwave). Application temperature +5°C to +35°C

The above application guidelines are indicative, for the correct use of the product. For more technical details please contact the company's technical department.

We guarantee the quality of all our products, on the basis of their technical specifications, as described in the Declaration of Performance (CE) and this technical data sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depend on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. This edition of technical data sheet automatically cancels any previous version