

UNIVERSAL

White tile adhesive with zero vertical slip



DESCRIPTION

White cement-based tile adhesive with zero vertical slip. Provides high initial and final adhesion strength and moisture resistance. It is classified as a type C1TE adhesive according to the EN 12004 standard. Suitable for fixing ceramic tiles, on wall or floor, on surfaces made of concrete, render, etc.

With Eurofins Indoor Air Comfort certification ensuring that UNIVERSAL complies with the strictest European regulations on VOC emissions.

USAGES

UNIVERSAL is suitable for fixing the following types of tiles:

- Tiles of any type
- Low absorbency tiles
- Artificial and natural granite tiles
- Glass tiles
- Gres porcelain type tiles
- Decorative stones, natural or artificial

UNIVERSAL is suitable for application on the following types of substrates:

- Concrete and cement mortars
- Coatings & mortars
- Cement boards, plasterboards (using a suitable primer)
- Brick masonry

CHARACTERISTICS/ ADVANTAGES

- High strength
- Excellent adhesion
- Moisture and frost-proof
- Incomparable quality of raw materials
- Easy to apply - excellent workability
- Indoor and outdoor use

PRODUCT INFORMATION

Composition	Portland Cement, aggregates of selected granulometry, special additives and polymer components
Colour	White
Packaging	25 kg paper bag & 5 kg plastic bag
Storage	12 months from the date of production in unopened package

TECHNICAL CHARACTERISTICS

Specific gravity of wet mortar:	1.6 kg/lit (+20°C)	
Slip	≤ 0,5 mm	(EN 1308)
Adhesion strength:		
<i>Average values based on production control laboratory tests:</i>		
<i>On concrete after 28 days:</i>	>1 N/ mm ²	(EN 1348)
<i>After heating at 70°C:</i>	>0.8 N/mm ²	(EN 1348)
In water:	1 N/mm ²	(EN 1348)
After 25 cycles of freezing - thawing	>0.8 N/mm ²	(EN 1348)
Open time for application:	20-25 min	
Time for minor corrections:	10 min	

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Environmental temperature	+5°C / +35°C
Dilution	~7,0 lt water/bag 25 kg
Consumption	2,5 - 4 kg/m ² , depending on the levelling of the surface, the size and the type of tile
Grouting	On floor: ~12 h at +20°C On walls: ~24 h at +20°C

DIRECTIONS OF USE

SUBSTRATE PREPARATION

Check that the substrate is clean, dry and free from loose particles and other materials. If the substrate is unstable or crumbles, then it is recommended to prime the surface with MARMOLINE MST 11 acrylic water based primer.

MIXING

Mix UNIVERSAL with the necessary quantity of water, using an electric mixer at low speed, until a homogeneous, lump-free mixture is obtained. Leave the mixture to set for 5-10 minutes and stir again for 1-2 minutes. Spread with a notched trowel; choose the size according to the type of tile and the substrate. Tiles must be fixed within 20 minutes after applying the adhesive and definitely before it skins-over.

APPLICATION

Fix the tiles by applying pressure to them. The adhesive remains workable in the pot for 3 to 4 hours, depending on the season, temperature and humidity of the environment.

When the adhesive begins to set, stir again without adding water. Proceed to grouting after 24 hours for floors and 12 hours for walls.

TOOLS CLEANING

Raw material should be removed immediately from the application equipment with water. Hardened / mature material can only be removed mechanically.

IMPORTANT NOTES

- The laying of the adhesive should be done at temperatures between +5°C and +35°C, without exposure to extreme weather conditions.
- Apply only on stable, well-prepared substrates.
- Do not exceed the recommended maximum amount of mixing water.
- Do not add extra water to adhesive that has already started to set.
- Do not exceed the maximum application thickness. Protect the application surface from frost, wind and direct sunlight for at least 24 hours after application.

HEALTH, SAFETY & ENVIROMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website www.marmoline.gr or upon request.

LEGAL NOTICE

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.

All technical data stated in this Product Properties Sheet based on laboratory tests. The really measurable data can have differentiated due to conditions that do not are subject to our control. The recommendations and implementation instructions must be considered from the user as indicative, and always with given that the product has been traded and traded and stored according to its instructions.

As it is not possible to control the parameters / conditions of its application product in practice, cannot no guarantee is provided for result of each application. Therefore, no legal basis can be established liability of the Company based on the information and instructions here in Product Properties Sheet.

The Company reserves the right amendment of those listed herein Product Properties Sheet, no warning. Users must refer to the latest version Product Properties Sheet.



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DoP: 011 MARMO-CPR

NORDIA A.E.
364 Kifissias Av., 15233 Chalandri, Athens, Greece

EN 12004:2007 + A1:2012
MARMOLINE UNIVERSAL
Cementitious adhesive for tiles with reduced slip
and extended open time

Initial tensile adhesion strength:	$\geq 0.5\text{N/mm}^2$
Tensile adhesion strength after heat ageing:	$\geq 0.5\text{N/mm}^2$
Tensile adhesion strength after water immersion:	$\geq 0.5\text{N/mm}^2$
Tensile adhesion strength after freeze/thaw cycles:	$\geq 0.5\text{N/mm}^2$
Reaction to fire:	Class : A1
Release of dangerous substances:	See product's SDS