

AD PRO 40

White tile adhesive

EN 12004
C1

DESCRIPTION

White cement-based tile adhesive. Provides high initial and final adhesion strength and moisture resistance. It is classified as a type C1 adhesive according to the EN 12004 standard. Suitable for fixing ceramic tiles, on wall or floor, on surfaces made of concrete, render etc.

AD PRO 40 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

APPLICATION FIELDS

AD PRO 40 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

CHARACTERISTICS/ ADVANTAGES

- Extended open time
- 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	20 kg paper bag - 960 kg pallet (48 paper bags)
Storage Conditions	In the original, closed, sealed and indestructible packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
Shelf life	12 months from the date of production in unopened package

TECHNICAL CHARACTERISTICS

Specific gravity of wet mortar: ~ 1.60 kg/lit (+20°C)

Adhesion strength:

Data based on average laboratory test results:

On concrete after 28 days: ≥ 1.0 N/mm² (EN 1348)

After heating at 70°C: ≥ 0.8 N/mm² (EN 1348)

In water: ≥ 0.7 N/mm² (EN 1348)

After 25 cycles of freezing – thawing: ≥ 0.8 N/mm² (EN 1348)

Open time for application: ~ 20 min (EN 1346)

Time for minor corrections: ~ 10 min

APPLICATION INFORMATION

Substrate temperature	+5°C / +35°C
Environmental temperature	+5°C / +35°C
Mixing ratio	~ 5.5 lt water/bag 20 kg
Maximum application thickness	10 mm
Consumption	2.5 – 4.0 kg/m ² , depending on the levelling of the surface, the size and the type of tile
Grouting	On floor: ~24 h at +20°C On walls: ~12 h at +20°C

APPLICATION INSTRUCTIONS

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 well, with a low-speed electric stirrer, one bag 20 kg of AD PRO 40 with around 5.5 liters of clean water until a homogeneous, lump-free mixture is obtained. Leave the mixture to set for 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 15 - 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 / cured 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 wet the applied adhesive layer before applying the tiles.
- Do not exceed the maximum application thickness.
- Protect the application surface from frost, wind and direct sunlight for at least 24 hours after application.

COMPLIANCE WITH STANDARDS

It has CE marking and Declaration of Performance as normal setting cementitious tile adhesive C1, according to EN 12004: 2007.

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 <https://marmoline.gr/> or upon request.

Company can be established based on the information and instruction given in this Technical Data Sheet.

The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet.

LEGAL NOTICE

We guarantee the quality of all our products, based on 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 depends 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 data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that do not are subject to our control. The recommendations and implementation instructions must be considered by 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, no guarantee is provided for the final result of each application. Consequently, no legal liability of the

 24 DoP: 098 MARMO-CPR	
NORDIA S.A. 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 12004:2007 + A1:2012 AD PRO 40 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:	Class A1
Release of dangerous substances:	See product's SDS
see detailed DoP in https://marmoline.gr	