

TAG 116



Polymer-modified, Cement-based, Grey, Deformable Tile Adhesive with Improved Additional Characteristics for Porcelain Tiles and Natural Stone

Description

TAG 116 is a grey, polymer-modified, cement-based, thin-set tile adhesive, supplied ready to use as a pre-bagged dry powder that requires the addition of clean water on site. **TAG 116** is modified with improved characteristics, making it ideally designed for porcelain and large format tiles as well as natural stones.

Uses

- Bonding porcelain, large format tiles, and natural stone on cement-based substrates such as concrete, plaster, and screeds.
- Wall and floor applications, indoor and outdoor uses.
- Suitable for deformable substrates.
- Recommended for natural stone and porcelain tiles.
- Ideal for heavy-duty applications.

Characteristics / Advantages

- High workability and extended open time.
- Superior adhesion strength and flexibility.
- Tile over tile applications.
- Low VOC.
- Non-sagging, suitable for wall applications.
- Low shrinkage with high durability.

Standard Compliance

- EN 12004-1:2017 Class C2 TE S1
- ISO 13007-1:2010 Class C2 TE S1
- ANSI A118.4: 2020
- GOST R 56387:2018 Class C2 TE S1

Packaging

TAG 116 is supplied in 20 and 25-kg packs.

Typical Properties

Appearance

Grey powder

Mixed Density (@ 23°C)

1.50 ± 0.05 g/ml

Open Time

≥ 30 minutes

Ready to Walk On

≥ 24 hours

Ready for Grouting

≥ 24 hours

Ready for Use

7 days minimum

Substrate Temperature

+5°C to +40°C

Water Ratio

22 – 26%

Initial Tensile Adhesion Strength (Normal Condition) (EN 12004-2, 8.3)

≥ 1.0 MPa

Tensile Adhesion Strength After Heat Ageing (EN 12004-2, 8.3)

≥ 1.0 MPa

Tensile Adhesion Strength After Water Immersion (EN 12004-2, 8.3)

≥ 1.0 MPa

Slip (EN 12004-2, 8.2)

≤ 0.5 mm

Shelf Life and Storage

TAG 116 has a shelf life of 12 months when stored in its original unopened packaging in cool and dry conditions, protected from direct sunlight, heat, and moisture.

Shelf life may be reduced if the recommended storage conditions are not followed.

Application Instructions

1. Surface Preparation

The substrate must be sufficiently cured to avoid any shrinkage cracks, and clean from dust, oils, dirt, curing compounds, etc. The substrate should be dampened, and excess water removed prior to application.

2. Mixing

Pour into a suitable container 5.5 – 6.5 liters of clean water for each 25 kg bag of **TAG 116**. Add the **TAG 116** powder to the water and mix using a low-speed mixing drill fitted with a suitable mixing paddle, mix for 2 – 3 minutes until a smooth, even, lump-free consistency is achieved. Allow the mixed material to stand for 2 – 5 minutes, then re-stir slightly with no extra water to be added to the mix.

3. Application

Apply the adhesive using the flat side of the notched trowel, hold it at a 45 ° angle, and spread the adhesive evenly to obtain good coverage. Then using the notched side of the trowel, comb the adhesive, to obtain an even setting bed. Cover the surface uniformly with sufficient adhesive without bare spots and press the tiles firmly into the adhesive to ensure a minimum wet film thickness of 2 mm between the tile and the substrate after the tile has been placed. Apply adhesive only in areas that can be covered with tiles before the adhesive films over. Remove any adhesive that films over and apply fresh adhesive.

During use, occasionally remix the adhesive. Additional water or fresh materials shall not be added after initial mixing. The adhesive shall not be used after the initial set.

4. Tile Fixing

Press the tile into the freshly combed adhesive, ensuring adhesive contact with the tile. Maintain joint alignment and spacing and keep an adequate joint depth open for grouting.

The general recommended bed thickness is 2 – 6 mm, dependent upon the type of tiles that are being laid. It is recommended to periodically remove and check a tile to ensure proper adhesive coverage.

5. Cleaning

All mixing equipment and application tools should be cleaned immediately with clean water. Hardened material should be mechanically removed.

Safety Instructions

TAG 116 contains hydraulic cement and may cause irritation to the skin or eyes. Refer to the most recent Material Safety Data Sheet for information and advice on the safe handling, storage, and disposal of the product.

Consumption and Coverage (For 25 kg packs)

Yield: ~ 20 Liters

Consumption: 3.60 – 3.75 kg/m²/3 mm thickness

Coverage: 6.60 – 7.00 m²/25 kg bag/3 mm thickness

Limitations

- Do not apply the product if the ambient temperature is less than 5°C.
- Certain tile types, such as natural stone, are porous in nature and may discolor. We recommend that the compatibility of the adhesive with the tiles should always be confirmed with a trial test area.
- Hot weather practices should be adopted during application and curing if the temperature is above 35°C. In hot conditions, store the material in a cool environment prior to mixing and use chilled mixing water.

Technical Support

Refer to technical information, method statement, or contact technical support team for any inquiry.

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