

TAW 114E



Polymer-modified, Cement-based, White Tile Adhesive with Extended Open Time for Ceramic and Porcelain Tiles

Description

TAW 114E is a white, 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. It is ideally designed for large format tiles such as porcelain and heavy-duty application of tiles and stones.

Uses

- Bonding heavy-duty tiles on cement-based substrates such as concrete, plaster, screeds.
- Wall and floor applications.
- Indoor and outdoor uses, where no high deformation characteristics are required.
- Can be used with different types of tiles.
- Ideally designed for heavy traffic areas and such as staircases.
- Suitable for underfloor heating.

Characteristics / Advantages

- Factory-controlled, pre-blended dry mix which requires the addition of mixing water.
- Superior adhesion strength.
- Flexible tile adhesive.
- High workability and extended open time.
- Non-sagging characteristics, suitable for vertical applications.
- Low VOC.
- Low shrinkage with high durability.

Standard Compliance

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

Packaging

TAW 114E is supplied in 20 and 25-kg packs.

Typical Properties

Appearance	White 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

TAW 114E 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 **TAW 114E**. Add the **TAW 114E** 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

TAW 114E 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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