

Magfix 104

Polymer modified cementitious tile adhesive



Description

Magfix 104 is a polymer modified cementitious tile adhesive available in grey color.

Features & Benefits

- Ready to mix powder, needs only addition of water.
- Superior bond strength
- Setting time adjusted for optimum tile laying work
- Enriched with special additives for non-shrink & non-slip properties
- No additional curing required

Primary Application

Magfix 104 is recommended for :

Tile Type : Ceramic, vitrified, clay tiles

Tile Size: Upto 600mm x 600mm

Application Area: Interior - Floor & wall, dry area.

Technical properties

Adhesive Type & Class : Type 1
Deformable 'S1'
Slip resistant 'T'

Water/powder ratio : 0.250 to 0.275

Parameter	Result	Requirement as per IS:15477 - 2019	Test Method
Open time (minutes)	25	Not specified	IS: 15477 - 2019 Annex C
Adjustability (minutes)	35	Not specified	IS: 15477 - 2019 Annex D
Slip resistance (mm)	0.01	Maximum 0.5	IS: 15477 - 2019 Annex E
Deformability (mm) @ 28 days	2.75	2.5 - 5.0 (Class S1)	IS: 15477 - 2019 Annex F
Tensile adhesion strength (Mpa) @ 28 days a) Dry condition b) Wet condition	0.85 0.69	0.5 -	IS: 15477 - 2019 Annex A
Shear adhesion strength (Mpa) @ 28 days a) Dry condition b) Heat aging condition c) Wet condition	1.23 0.91 1.01	1 - -	IS: 15477 - 2019 Annex B

Application Instructions

Substrate Preparation

Moisten slightly the substrate if it is dry at the time of application, never moisten the tiles. The substrate should be structurally sound, free from loose and weak surface such as laitance. The substrate should be free from bond affecting substances such as oil, grease, dirt, dust or any type of friable particles.

Mixing

Mix Magfix 104 in the proportion of 5 to 5.5 liters of clean cool water per 20 kg bag. An electric mixer with low rotation speed (< 500 rpm) can be used. Mix until a uniform lump free paste is obtained. However the mixing time shall not be less than 3 minutes. Let the paste rest for a few minutes to disappear all the bubbles before starting the application.

Application of the mixed material

Apply the Magfix 104 paste evenly on the substrate. The surface should be saturated surface dry condition but standing water should be avoided. Use a notched trowel to have a uniform thickness. As a general guide, for commonly used tiles such as mosaic and ceramic tiles usage of 6mm notched trowel to obtain a minimum average thickness of 3 mm is recommended. For uneven surfaces the thickness of the material required will be more to even the undulations. Apply the tiles on the substrate within 25 minutes of mixing and press them firmly with twisting movement while making sure that the paste does not slip from the tile sides. In case, the material is deposited on the tile surface, it should be removed immediately with a damp cloth. The adhesive paste can also be applied on the back of tiles to ensure full adhesion on the entire surface.

Separate joint filling material should be used for grouting the joints. The tiles should not be disturbed for at least 24 hours after setting the tiles.

Cleaning of tools

Clean tools and application equipment with water immediately before hardening of the material. Hardened and cured material can be removed by mechanical means.

Special notes

- The cementitious substrates should be at least 28 days cured before application of the product.
- The water/powder ratio shall never be exceeded than recommended.
- Mix only appropriate quantity of powder keeping in mind the open time, within which tiling needs to be completed.
- Adjustments to the tiles should be made only within the adjustable period.
- It is recommended to leave a minimum width of 2 mm around the tiles (or as designed).
- Grouting the tile joints should be done only after at least 24 hours of tiling.

Estimating Packaging

Magfix 104 is supplied in 20kg HDPE bags with polyethylene lining.

Coverage

Approx. 4-5kg of Magfix 104 powder is required per m² of the tile area. 4 to 5m² tile area will be covered by one 20 kg bag of Magfix 104 at a thickness of 5mm.

Storage

Magfix 104 has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety instructions

The product contains cement powders which, when mixed with water, releases alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

Fire

Magfix 104 is non-flammable

Important note :

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