

FLEXISET H10

(FLOOR AND WALL TILE ADHESIVE)



DESCRIPTION

FLEXISET H10 is a ready mixed polymer modified cement based adhesive for fixing ceramic tile, terracotta, and small size natural stones for both horizontal and vertical surfaces over cementitious substrate in indoor areas. It is consisted of cement, fine selected sand and special additives.

FEATURES / ADVANTAGES

- High bond strength with no shrinkage cracks
- Non slip. Excellent initial adherence
- Self Curing properties with very low VOC
- Easy to use - with just addition of water
- Good adhesive bond strength & Bonds to various cement-based substrates
- All types of ceramic tile, terracotta, brick, vitrified tiles*, natural stones and large format tile**

* Vitrified Tiles : Only recommended to fix on floors for maximum size up to 4 square foot

** Large Format Tiles : Mix MarkChem Grout Admix with FlexiSet H10. Before using it is guided to consult MarkChem technical team

SUITABLE SUBSTRATES

- Concrete
- Cement Plaster
- Brick Masonry
- Cement Based Screeds
- Cement Based surfaces

APPROVALS / COMPILES

- IS 15477:2019 TYPE 1
- C1 T AS PER EN 12004-1:2017

PHYSICAL PROPERTIES

Consistency	Powder
Colour	Grey
Bulk Density (Kg/m ³)	1420
Mixing Ratio	5.0 - 5.5 litres water per 20 Kg Bag
Consistency of a mix	Pasty
Pot Life @ + 23°C	Over 4 Hours
Application Temperature Range	From +5°C to +35°C
Slip Resistance / Vertical Slip (T)	< =0.5 mm
Open Time @ + 23°C	20 Minutes
Adjustability Time	Approx 20 Minutes
Set to foot traffic	24 hours
Max Thickness Allowed	12 mm

TENSILE ADHESION STRENGTH

After 28 Days	> 0.8 N/mm ²
ADHESION AFTER HEAT AGEING	> 0.8 N/mm ²
ADHESION AFTER WATER IMMERSION	> 0.8 N/mm ²
ADHESION AFTER FREEZE THAW CYCLES	> 0.8 N/mm ²

DIRECTIONS FOR USE

SUBSTRATE PREPARATION : The substrates must be flat, mechanically resistant, free of loose parts, grease, oils, paints, wax, etc. Cement substrates should not be subject to shrinkage after the installation of the ceramic tiles, therefore, during spring and summer, renders must cure at least one week for each cm of thickness and cement screeds must have an overall cure time of at least 28 days. Dampen with water to cool surfaces which have become heated from exposure to sunlight. Gypsum substrates and anhydrite screeds must be perfectly dry (max. residual moisture 0.5%), sufficiently hard and free from dust.

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MIXING : In a clean mixing container pour in 5.0 - 5.5 litres of clean water. Add the 20kg bag of FLEXISET H10 powder. Using an electric mix (approx. 300RPM) mix until a smooth, lump- free paste is obtained. Leave the mix to rest for approximately 5 minutes and then re-stir. Mixed this way, FLEXISET H10 has a pot life of approximately 4 hours..

SPREADING : FLEXISET H10 is applied to the substrate using a notched trowel. Choose a trowel that allows for complete coverage of the tile back.

To achieve a good adhesion, spread an initial thin layer of FLEXISET H10 on the substrate using the flat side of the trowel. Immediately after, apply the desired thickness of FLEXISET H10 using a suitable notched trowel, depending on the type and size of the tiles

INSTALLATION : There is no need to wet the tiles before installing them. Only with very dusty backs it is recommended to dip the tiles in clean water. Tiles should be installed under a firm pressure to ensure good coverage of the adhesive. In normal temperatures and humidity conditions, the open time is approximately 20 minutes. Unfavourable weather conditions (strong sun, wind, high temperatures, etc.) or a highly absorbent substrate can reduce the open time, even to just a few minutes.

It is therefore necessary that careful checks be made to ensure that a skin does not form on the surface of the spread adhesive, which should stay fresh. If not, re-freshen the adhesive by re-spreading with a notched trowel.

It is not recommended to wet the adhesive with water once a skin has formed because, instead of dissolving the skin, the water will form an anti-adhesive film. If necessary, tiles should be adjusted within 60 minutes of installation. Tiling installed must not be washed or exposed to rain for at least 24 hours and must be protected from frost and strong sun for at least 5-7 days.

GROUTING AND SEALING : Wall joints can be grouted after 4-8 hours and floor joints can be grouted after 24 hours with the specific ROCKCRETE OR ROCKPOXY cementitious or epoxy grouts, available in different colours.

CONSUMPTION

Approx. 1.2 kg/ m² per mm of thickness.

Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness

PACKING

FLEXISET H10 grey are available in 20 Kg bags

STORAGE

12 months in a normal environment in original packaging in a dry, elevated area.

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.



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