

HAPPILAC HI-BOND



High-Performance Polymer Modified Cementitious Tile & Marble Adhesive.

Happilac Hi-Bond T-10 is a grey cementitious powder formulated as a high-performance, water-resistant and dry-set tile fixing adhesive. It is made for bonding of most types of both porous and non-porous ceramic tiles which include, porcelain, mosaic, natural stone, marble and granite for walls and floor applications. For better results, tile joints must be grouted with HI- Grout G-100.

Features



Excellent application properties



High bond strength



Slump free consistency & no sagging



Long open time



Exterior & interior application



Single component-ready to use



Suitable for tropical & hot climate conditions



Technical Details

Hi-Bond T-10 is a blend of Portland cement, graded sand and organic polymers along with special additives to improve consistency, adhesion and workability.

Appearance	Grey powder
Bulk density (dry)	1.5 kg/liter
Bulk density (wet)	1.8 kg/liter
Open time	20 mins at 25°C
Pot life	2 hours at 25°C
Shear strength (14 days)	1.7 MPa
Tensile strength (28 days)	1.8 MPa
Available packing	20 kg , 40 kg
Shelf life	3 Months under recommended storage conditions
Coverage	Normally 5 m ² tile of $\approx$ 2-3 mm thickness with a 40 kg bag

Surface Preparation

The substrate should be free from dust, grease, wax, oil, dirt, loose plaster, mold, releasing agents, cutting compounds, paint and all other friable materials along with compounds likely to bond with the adhesive

bonding. All the substrate should be securely fastened and properly supported to eliminate any movement which may cause cracking.



Application Guide

Apply Hi-Bond T-10 evenly with a 6 x 6mm notched trowel for tile up to 150 x 150mm and for larger tiles use a 12 x 12mm notched trowel. Lay down the tiles with good pressure while twisting to ensure good contact with the adhesive. In more demanding exterior situations or if tiles with high ribs or lugs are being used, it is preferable to spread the back of the tiles with a thin layer of adhesive in addition to the adhesive already being troweled onto the substrate, before laying down the tiles. For wall tiling, a minimum final bed thickness of 2mm is recommended, whilst for floor tiling a minimum final bed thickness of 3mm is recommended.

Don't spread more than 1m² of adhesive at any given time as skinning may occur that might affect the final adhesion. Press the tiles onto the adhesive before it skins and ensure that the tiles are fully supported with the adhesive without voids. Occasionally, in order to ensure that full coverage is being maintained, a tile should be removed, the adhesive coverage should be noted and the tiles can be re-laid accordingly. Once the tiles have been laid down, they must not be trafficked upon or disturbed for a minimum of 24 hours at 20°C.

Old surfaces must be made uneven to have a better adhesion with the tile adhesive before placing the new tiles on it.

Mixing:

1. Add 4 to 5 liters of clean water into a bucket per 20 kg material.
2. Sprinkle Hi-Bond T-10 slowly into the water while mixing constantly until a tack paste consistency is achieved without lumps.
3. Let the mixture sit for 5 to 10 minutes before re-mixing as now the adhesive is ready to use. Do not aerate the mix by over stirring. The mixture should be stiff enough to keep the shape when spread with a notched trowel.

Available packs and Storage

- The product is supplied in a powdered form packed in approximately 20kg, 40kg packs
- The product must be stored in a dry, moisture-free, well ventilated and waterproof place
- Keep the pack closed and handle it with care

Health and Safety Notes

- When applying, take appropriate protective eyewear
- In case the product comes in contact with the eye, rinse with plenty of water for at least 10 minutes
- Don't inhale the spray mist or dust
- Ensure proper ventilation when applying
- Swallowing may cause serious damage.
- Don't use empty sacks for edible storage
- Keep out of the reach of children
- In case of any emergency, undergo medical supervision as soon as possible

CAUTION: Scrapping/sanding off previously cemented surfaces may release dust or fumes which are highly toxic; take protective measures thoroughly when rubbing off the old surfaces.

The information provided in this data sheet is accurate and authentic to the best of our knowledge and based on standard tests. However, results may vary due to possible variations in field conditions and application procedures.



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