

TILE BOND 50

High Performance, High Flexibility Polymer Modified Tile Adhesive

Description

TILEBOND 50 is a high flexibility, polymer modified, high quality, waterproof tile adhesive consisting of Portland cement, flexible synthetic polymer, silica sand and special chemical additives.

TILEBOND 50 when mixed with water becomes an easily workable product with a high adhesion power and excellent elasticity. It is especially suited to high performance situations with heavy pedestrian traffic. Its thixotropic property permits to apply vertically without slipping. **TILEBOND 50** adhesive features excellent performance in adherence and deformability with no need for mixing with additives. It is eco-friendly.

Features & Benefits

- Pre-mix, ready to use.
- Waterproof and high bonding properties.
- High deformability, type S2
- For internal and external applications.
- Slip resistance property, no sagging.
- Environment friendly
- Compatible with different types of cement substrates.
- Suitable for hot weather.

Uses

TILEBOND 50 is high quality and flexible adhesive used for:

- Bonding all types and sizes of tiles on internal and external areas.
- Bonding stone, marbles, porcelain and mosaic tiles
- Bonding porcelain tiles in swimming pools, fountains, etc.
- Specially designed for large size of tiles to be laid on large surface areas without double buttering.
- Laying ceramic and stone on old floor ceramics.
- Laying ceramic tiles on plywood, wooden and gypsum substrates.
- Laying ceramics and stone on balconies, terraces and paving slabs exposed to direct sun light and thermal gradients.

Technical Properties

Appearance	Cementitious powder
Wet Density	1,550 Kg/m ³ approx.
Open time	30 min @ 25°C
Adjustable time	40 min @ 25°C
VOC	<1.0 g/L
Adhesion Strength:	
Initial Adhesion	2.0 N/mm ² @ 28 days
After heating	2.1 N/mm ² @ 28 days
After water immersion	1.2 N/mm ² @ 28 days
After Freeze/thaw Cycle	1.2 N/mm ² @ 28 days
Shear Strength	≥2.4 N/mm ²
Slip resistance	≤0.5mm
Deformability	≥5mm, type S2

All values are subject to 5-10% tolerance

Standards Compliance:

- EN 12004 C2TE , S2
- ISO 13007 C2TE , S2
- ANSI 118.4
- BS 5980, Class A Type 1

Application Procedures

Surface preparation:

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, stable, dry, and clean. Rough surfaces are to be evened or filled first with one of repairing products before tilling. Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application. All surfaces are to be free of sharp protruding surfaces, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains. Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. Moisten the substrate with clean water.

Gypsum substrate should be primed with ULTRABOND AR. In case of high porous tiles, moisten the backside of tile to eliminate the water absorption from TILEBOND 50 mix.

Mixing Instructions:

Add **TILE BOND 50** (25kg bag) into a container of 4.5 - 5.0 Ltr. of clean water or and mix until a uniform lumps free consistency mix is achieved. For mixing use a slow speed mechanical mixer (200-300 rpm) fitted with suitable mixing paddle. Allow product to settle for 5 minutes then lightly re-stir before use. If product is left undisturbed in external conditions it may thicken, therefore it is recommended to regularly stir during use.

Application Instructions:

Spread **TILE BOND 50** adhesive evenly over the substrate using notched trowel, the first pass with its smooth part and the second pass with the toothed part. While adhesive is in a wet state, press and slide the tile at right angles to the notched line of the adhesive to ensure 100% coverage to tile backs. For large tiles and in order to achieve higher bonding it is recommended to spread the adhesive to the back of tile before placing into the notched pattern of adhesive. It is recommended that when fixing ceramic tiles, a minimum spacing of 2mm be left around each tile (depends on type and size of tile).

Remove excess adhesive from tile surface and joints using damp cloth before the adhesive dry. Joints grouting between tiles may be recommended after 24 hours of tiling for walls and 48 hours for floors, be sure that mortar is dry before grouting.

Yield/ Coverage

A 25 kg bag of **TILE BOND 50** will cover 5.5-6 m² (solid bed at 3mm thickness) or 10 m² (using notched trowel).

Packaging

TILE BOND 50 is available in 25kg bag for White or Grey adhesive.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.



SBI products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service. All SBI datasheets are updated on a regular basis. It is the user's responsibility to obtain the recent version.

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