



POWER BOND

General Purpose Tile Adhesive

DESCRIPTION

Grey, polymer modified adhesive suitable for fixing porous clay & ceramic tiles of small format on walls & floors in dry situations on cement-based backgrounds.

STANDARDS

Complies with IS 15477: 2019 Type 2T “Adhesives for use with Ceramic, Mosaic and Stone Tiles”

FEATURES

- Polymer modified adhesive
- Easy mixing & application
- Internal situations
- For concrete/plaster surface
- Enhanced flexibility & adhesion can be obtained with addition of ADMIX AD1 (latex additive).

SUITABLE SUBSTRATES

- Concrete
- Cement sand screed
- Plaster

PHYSICAL PROPERTIES (@ 27 ± 2°C)

Bed Thickness upto 6 mm (suitable upto 12mm in areas of limited extent)

Pot Life 1 hour

Setting Time 24 hours

Temperature 150°C

Resistance

Properties as per IS 15477: 2019 @ 27 ± 2 °C

Property	Min. requirement	Typical Result
Tensile strength (N/mm²)		
Dry condition	0.50	>1.20
Shear adhesion strength (N/mm²)		
Dry condition	1.00	>1.00
Open time in minutes	As per Mftr	10
Adjustment time in minutes	As per Mftr	5
Slip (less than 0.5mm)	<0.50	<0.30

COVERAGE ESTIMATES

Pack size Coverage

20 kg approx. 20 to 25 SFT

Thickness	Consumption/SFT
6mm	.80 – 1 Kg
12mm	1.6 – 2 Kgs

Note: Coverage will depend on the nature and flatness of the surface and the method of application. For good coverage, it is vital that all surfaces are smooth, plumb, level and free from defects and undulations.

APPLICATION INSTRUCTIONS

Substrate Preparation

Before starting any work ensure that the base is:

- Sufficiently flat to permit the specified flatness of finished tiling, bearing in mind the permissible thickness of the adhesive.
- Suitable for tiling in the service conditions to which it will be exposed.
- Surfaces to be tiled must be dry, clean and free from loose material and contamination.

Allow the following drying times:

- Concrete/Concrete block /Clay brickwork - 6 weeks
- Cement sand screed - 3 weeks
- Cement sand rendering - 2 weeks

Mixing

Add 20 kgs of POWER BOND to 5 to 6 liters of clean water. Mix thoroughly until a homogeneous lump-free consistency is obtained. Allow the mixed adhesive to polymerise for 2-5 minutes and mix again for 30 seconds. The adhesive is ready-for-use and has a pot life of 1 hour. No further water should be added. Where mixing by weight is not possible, volume mixing can be carried out at site in the ratio of 1: 3.5 (water: powder)

APPLICATION

1. Spread not more than the area which can be tiled within the open time of the adhesive.
2. The mixed adhesive is applied to the prepared surface with a trowel and then combed through with a suitably sized square-toothed notched trowel.
3. The tiles should be fixed within the open time of the adhesive and pressed into place with a twisting and sliding action ensuring solid bed fixing is achieved. The open time is dependent on-site conditions and will be extended in lower temperatures and shortened at higher temperatures.
4. Check periodically that good contact is maintained with the back of each tile.
5. Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
6. Clean off surplus adhesive from the tile face and between joints.



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- Use suitable clamps along with adhesive at the time of installation of tiles/stones above 3 m height.
- For large span tiling works, leave movement joints at every 3m interval and fill with a flexible sealant.
- Prevent foot traffic till the adhesive has completely set.

SPACERS

Use spacers for uniform joint width.

GROUTING

Grouting should not be carried out for at least 24 hours. Use the appropriate grouting material from the range of cementitious and epoxy grouts.

CLEANING

Tools and containers may be cleaned using clean water when the adhesive is still fresh. The hardened adhesive can be removed from tools mechanically.

STORAGE AND SHELF LIFE

POWER BOND has a shelf life of 12 months when stored in normal dry conditions.

PRECAUTIONS

Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.

For more details please refer the relevant Material Safety Data Sheet

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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For further information, please consult the expert technicians of Mix & Fix. The technical advice on how to use our products, whether written or verbally given, is based on the current state of our scientific and practical expertise and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products. Therefore, the customer is not exempt from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes. This version supersedes all previous versions.