



BRONZE STAR

Polymer Modified adhesive

DESCRIPTION

Grey, polymer modified adhesive suitable for fixing ceramic tiles on walls & floor in interior dry situations on cementitious backgrounds.

Note: Not recommended for direct use onto gypsum plaster (wall finishes), paint or metal.

STANDARDS

Complies with **IS 15477: 2019** Type 1T "Adhesives for use with Ceramic, Mosaic and Stone Tiles".

FEATURES

- Polymer modified adhesive
- Easy mixing & application
- Improved working time.
- Good bond to 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 up to 12mm in areas of limited extent)

Pot Life 1.5 hours

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. 1.45 - 1.55 kg/m²/mm

Notch Trowel size	Consumption/m ² (@ 45°angle of trowel)
6mm X 6mm	3.15 - 3.35Kgs
8mm X 8mm	4.20 - 4.45Kgs
12mm X 12mm	6.30 - 6.65Kgs

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

Mixing

Add 20 kgs of BRONZE STAR to 3.55 to 3.65 ltrs 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 1.5 hours. 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)

In case of using latex additives, use 1 litre of ADMIX AD 1 with 2.55 -2.65 litres of water and 20 kg of Bronze Star

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. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
6. Leave adequate joints between individual wall and floor tiles unless self-spacing tiles are used.
7. Clean off surplus adhesive from the tile face and between joints

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Note

- Do not use in damp conditions and temperature less than 5°C
- Seal the sides & bottom of porous stones with UNDERTILE & STONE PRIMER to avoid migration of moisture. The top surface can be sealed with a suitable protective sealer from ARDEX ENDURA range.
- 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 as per BS 5385.
- Prevent foot traffic till the adhesive has completely set.

SPACERS

Use ARDEX ENDURA 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.

NOTE: The addition of ADMIX GT 1 to cement - based grouts will enhance adhesion to tile edges, increase water-resistance and improves flexibility.

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

BRONZE STAR 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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