

# BRONZE STAR

## Polymer Modified Adhesive



### DESCRIPTION

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

### STANDARDS

Confirms to **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 cement based backgrounds
- Enhanced flexibility & adhesion can be obtained with addition of ADMIX AD1 (latex additive).

### SUITABLE SUBSTRATES

- Cement sand screed
- Cement 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 -30°C to 150°C

Resistance

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

Property with Test Method	Min. Requirements	Typical Result
Tensile Adhesion Strength (as per Annex A) Dry condition	0.50 N/mm <sup>2</sup>	> 0.80 N/mm <sup>2</sup>
Shear Adhesion Strength (as per Annex B) Dry condition	1.00 N/mm <sup>2</sup>	> 1.10 N/mm <sup>2</sup>
Open time (as per Annex C)	As per Mfr.	10 mins
Adjustment time (as per Annex D)	As per Mfr.	5 mins
Slip (as per annex E)	< 0.50 mm	0.40 mm

### COVERAGE ESTIMATES

Square notch Trowel size	Coverage for 20kg bag (@ 45° angle of trowel)
6mm X 6mm	67 - 71 Sqft
8mm X 8mm	50 - 54 Sqft
12mm X 12mm	34 - 36 Sqft

**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.

### Pack size

20 kg

(Available in 50 kgs bag as DURAFIX BRONZE STAR for project supply)

### 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:

- Cement sand screed - 3 weeks
- Cement sand rendering - 2 weeks

#### Mixing

Add BRONZE STAR to 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 (water: powder)

#### Water Content

20 kg Bag : 4.2 to 4.8 ltrs

50 kg Bag : 10.5 to 12.0 ltrs

In case of using latex additives,

Water+ADMIX AD 1

20 kg Bag : 3.2 to 3.8 ltrs+1 ltrs of ADMIX AD 1

50 kg Bag : 8.0 to 9.5 ltrs+2.5 ltrs of ADMIX AD 1

### 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.

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7. Clean off surplus adhesive from the tile face and between joints

### Note

- Do not use in damp conditions and temperature less than 5°C
- 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 (minimum 2mm) for uniform joint width

### GROUTING

Grouting should be carried out after 24 hours. Use the appropriate grouting material from the range of cementitious and epoxy grouts. EPOXY GROUT is strongly recommended for locations with requirement of hygiene & chemical resistance.

**Note:** The addition of ADMIX GT1 to cement based grouts will enhance adhesion to tile edges, increase water-resistance and improves flexibility.

### SEALERS

ARDEX ENDURA offers a range of Tile & Stone surface sealers depending on the desired finish:

- Wet look finish: Use 'Heavy Duty Impregnating Tile & Stone Sealer'
- Glossy finish: Use 'Impregnating Tile & Stone Sealer'
- Natural look: Use 'FC SS' or 'FC Sealer'

### 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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