



# SILVER STAR<sup>Plus</sup>

High polymer modified, cementitious, tile/stone adhesive

## DESCRIPTION

High polymer modified, grey cement based tile adhesive suitable for fixing wall and floor tile/stone in interior and exterior situations upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and is suitable for use in showers and totally immersed situations such as swimming pools.

SILVER STAR<sup>plus</sup> is used for wall and floor tiles, mosaics, vitrified and fully vitrified tiles, terrazzo and natural stone.

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

## STANDARDS

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

## FEATURES

- High bond strength
- Easy mixing, smooth application & better workability
- Water resistant
- Enhanced flexibility & adhesion can be obtained with addition of ADMIX AD1 (latex additive).

## SUITABLE BACKGROUND / BASES

New substrates:

- Concrete walls & floor
- Cement sand screed
- Cement sand render

Renovation works on existing:

- Unglazed tiles
- Hard natural stones\*
- Glazed tiles\* (vitrified and ceramic tiles)
- Mosaic tiles\* and In-situ mosaic flooring\*

\*The surface should be abraded (roughened) and cleaned before installation.

## PHYSICAL PROPERTIES (@ 27 ± 2°C)

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

Pot Life 3 hours

Setting Time 24 hours

Temperature Resistance - 30°C to + 150°C

VOC Content 1.12 g/L

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

Property	Min. requirement	Typical Result
<b>Tensile strength (N/mm<sup>2</sup>)</b>		
Dry condition	1.00	>1.30
Wet Condition	1.00	>1.10
<b>Shear adhesion strength (N/mm<sup>2</sup>)</b>		
Dry condition	1.25	>1.25
Wet Condition	1.00	>1.10
Heat Aging Condition	1.00	>1.25
<b>Open time in minutes</b>	As per Mftr	20
<b>Adjustment time in minutes</b>	As per Mftr	15
<b>Slip (less than 0.5mm)</b>	< 0.50	<0.30

## COVERAGE ESTIMATES

### Pack size

26 kg\* & 20 kg

### Coverage

approx. 1.30 - 1.40 kg/m<sup>2</sup>/mm

\*26 kg pack is available all India except North & East

Notch Trowel size	Consumption/m <sup>2</sup> (@ 45°angle of trowel)
6mm X 6mm	2.75 - 2.90Kgs
8mm X 8mm	3.65 - 3.90Kgs
12mm X 12mm	5.45 - 5.85Kgs

**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.

## SITE WORK INSTRUCTIONS

### SURFACE CONSIDERATIONS

New Cement Sand rendering/Brick/Block Wall

Before commencing tiling, allow plastered surface to air dry for at least 2 weeks (3 weeks for swimming pools).

New Concrete Bases:

Before commencing tiling, ensure that bases have been allowed to air dry for at least 4 weeks.

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### Existing Concrete/Screed Bases

Cut out all loose or hollow portions and make good with a 1:3 cement:sand mortar applied over a slurry bonding coat\* and let it cure and dry for 7 days.

Ceramic/Vitrified & Fully Vitrified Tile/Terrazzo/Hard Natural Stone Bases:

Check that existing finish is firmly adhering to the base. Remove any loose or hollow sounding tiles and reprofile with a 1:3 cement : sand mortar over a slurry bonding coat\*.

\*Slurry bonding coat is prepared by mixing 2 parts of portland cement to 1 part of ADMIX AD1. Brush on the base immediately before applying the adhesive.

### Mixing

Add SILVER STAR<sup>Plus</sup> to clean water. Mix thoroughly until a lump-free mortar is obtained. A 26 kg bag will require approx. 5.0 - 5.3 litres of water and 20 kg bag will require approx. 3.80 to 4.10 litres of water to obtain a slump-free consistency. The adhesive is immediately ready-for-use and has a pot life of 3 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 ADMIX AD1: Use 1 litre of ADMIX AD1 with 4.0 - 4.3 litres of water and 26 kg of SILVER STAR<sup>Plus</sup> & use 1 litre of ADMIX AD1 with 2.80 - 3.10 litres of water and 20 kg of SILVER STAR<sup>Plus</sup>.

### APPLICATION

1. Spread not more than the area which can be tiled within the open time of the adhesive.
2. Comb the adhesive to the required depth using a suitable square notch trowel.
3. Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile. Leave no voids behind tiles.
4. Tiles should be fixed within 20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions. Tiles can be adjusted up to 20 - 25 minutes after fixing. Touch the adhesive ribs periodically and if a skin has formed, remove the adhesive and apply a new layer.
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.

### Note

- Do not use in damp conditions and temperature less than 5°C
- Use suitable clamps along with adhesive at the time of installation of tiles/stones at height of more than 6m. For larger format tiles/stones, use clamps from 3.3m height.
- Leave movement joints at every 3m vertical interval and fill with a flexible sealant as per BS 5385.

### • SPACERS

Use ARDEX ENDURA spacers 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.

**Note:** The addition of ADMIX GT1 to cement - based grouts will enhance adhesion to tile/stones 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

SILVER STAR<sup>Plus</sup> 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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