

# PLATINUM STAR

Premium quality, high polymer modified deformable adhesive

## DESCRIPTION

White cement based, water & frost resistant, high polymer modified, high strength adhesive for fixing tile and stone on wall/floor in interior/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 suitable for use in swimming pools.

PLATINUM STAR White is used for fixing ceramic, vitrified & fully vitrified tiles, glass mosaic, porcelain, terrazzo, metal or glass tiles, non staining natural stone and engineered stone.

## STANDARDS

- PLATINUM STAR White complies with the requirements of IS 15477 : 2004 Type 2 "Specification for adhesives for use Ceramic Tiles and Mosaics".
- PLATINUM STAR White complies with the requirement of EN 12004 : 2007 C2ES1

## AREAS OF APPLICATION

|                            |   |
|----------------------------|---|
| Walls                      | ✓ |
| Floors                     | ✓ |
| Work Tops                  | ✓ |
| Interiors                  | ✓ |
| Exteriors                  | ✓ |
| Dry areas                  | ✓ |
| Wet areas                  | ✓ |
| Showers                    | ✓ |
| Swimming Pools             | ✓ |
| Hydrotherapy Pools         | ✓ |
| Limited Movement/vibration | ✓ |

## NOTE:

✓ = Suitable

## BACKGROUND / BASES

|                           |            |
|---------------------------|------------|
| Concrete                  | ✓          |
| Cement Plaster            | ✓          |
| Plaster Board             | ✓ (1), (2) |
| Tile Backer Board         | ✓          |
| Glazed and Unglazed Tiles | ✓          |
| Hard Natural Stone        | ✓          |
| Overlaid Timber Floors    | ✓ (1)      |
| Plywood / Chipboard       | ✓ (1)      |
| MDF (Internal Dry Areas)  | ✓ (1)      |
| Metal Boards              | ✓          |

## NOTE:

✓ = Suitable

- (1) In wet condition tank out with ARDEX ENDURA WATERPROOFING SYSTEM
- (2) Prime with ADMIX AD 1.
- (3) Seal reverse side and edges with ADMIX AD 1.  
Do not seal or prime surfaces to be tiled

## FEATURES

- Very high performance and strength
- Flexible adhesive
- Premium multi use adhesive
- Excellent water and frost resistance
- Excellent tensile & shear adhesion
- Easy mixing, smooth application & better workability
- Complies with the requirement of IS 15477: 2004 Type 2
- Complies with the requirement of EN 12004 : 2007 C2ES1

## PHYSICAL PROPERTIES

| PLATINUM STAR White                       | @ 27± 2°C                             |
|---|---------------------------------------|
| Mixed Density                             | 1.35 - 1.40 g/cc                      |
| Bed Thickness                             | upto 6 mm<br>(4)                      |
| Walls*                                    | Use 6 mm X 6 mm square notch trowel   |
| Floors*                                   | Use 12 mm X 12 mm square notch trowel |
| Mixing Ratio<br>(p.b.w = Parts by weight) | 1 p.b.w. Water to 4 p.b.w. Adhesive   |
| Open Time                                 | 20 - 25 Minutes                       |
| Pot Life                                  | 3 hours                               |
| Setting Time                              | 24 hours                              |
| Shear Adhesion<br>IS 15477:2004 Type 2    |                                       |
| 1 Day Air                                 | 8.00 kN                               |
| 14 Days Air                               | 16.00 kN                              |
| Temperature<br>Resistance                 | -30°C to 150°C                        |
| VOC Content                               | 3.78 g/L                              |
| Properties tested to EN 12004             |                                       |
| Tensile Adhesion<br>EN 1348               | > 1.0 N/mm <sup>2</sup>               |

## Note:

\*Suitability depends on surface level/flatness

(4) Up to 12mm in areas of limited extent.

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### COVERAGE ESTIMATES

| Pack size    | Coverage   |
|--------------|--|
| 2 kg & 20 kg | approx. 2.75 kg/m <sup>2</sup> @ 6mm x 6mm square notch trowel |

**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 Concrete/Brick/Block Wall:

Before rendering/plastering/tiling, allow walls to air dry for at least 6 weeks.

New Cement/Sand rendering

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.

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 dry and cure 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\*. Any surface contamination should be removed with HEAVY DUTY TILE CLEANER/TILE & STONE CLEANER.

\* 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.

Overlaid Timber Floors/Metal Boards:

Timber floor/Metal boards must be rigid and stable to receive tiles and capable of carrying the additional load without deflection. Adequate ventilation must exist beneath the timber/metal board. Overlay existing floor with WBP grade or marine grade plywood, at least 15 mm thick, timber/metal boards should be screwed down (not nailed) at 300 mm centres. All timber surfaces should be primed on the reverse side and edges with ADMIX AD 1.

Fibre Cement Boards/Tile Backer Boards:

Ensure that boards are dry, securely fixed, rigid and fixings do not protrude. Do not seal or prime surfaces that are to be tiled. The suitability of the boards as a background for ceramic tiling should be confirmed with the manufacturer.

MDF (Internal Dry Areas Only)/Plywood/Chip Board:

Ensure that sheets are capable of carrying the expected load without deflection; dry securely fixed and rigid and that fixings do not protrude. Where necessary insert noggings to support all board edges and to allow screw fixing at 300 mm centres. Seal the reverse side and edges with ADMIX AD 1. Do not seal or prime surfaces that are to be tiled.

Plaster Board:

Ensure that boards are capable of carrying the expected load without deflection; dry securely fixed and rigid and that fixings do not protrude. Where necessary insert noggings to support all board edges and to allow screw fixing at 200 mm centres. Prime the plaster board surface with ADMIX AD 1 where tile/stone would be fixed.

#### Mixing

Add PLATINUM STAR White to clean water. Mix thoroughly until a lump-free mortar is obtained. A 20 kg bag will require approx. 4.7 - 5.2 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 (water : powder)

### 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.

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## 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 ARDEX ENDURA cementitious and epoxy grouts.

**Note:** The addition of ADMIX GT 1 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

PLATINUM STAR White 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.

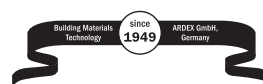
For more details please refer the relevant Material Safety Data Sheet

## 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.



## ARDEX ENDURA (INDIA) PRIVATE LIMITED

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