

DIAMOND STAR White

High performance, polymer modified, non-slip adhesive

DESCRIPTION

White cement based, high polymer modified, high strength adhesive for fixing tile & stone on wall/floor in interior/exterior situations at upto 6mm bed thickness (can be extended up to 12 mm in area of limited extent). The set adhesive is water-resistant and non-slip.

DIAMOND STAR White is flexible and can accommodate shocks due to impact load and heavy traffic. It is used for fixing ceramic, vitrified & fully vitrified tiles, glass mosaic, porcelain, terrazzo, natural stone and engineered stone.

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

STANDARDS

- DIAMOND STAR White complies with the requirements of IS 15477 : 2004 Type 2 "Specification for adhesives for use with Ceramic Tiles and Mosaics".
- DIAMOND STAR White complies with the requirement of EN12004 C1T.

AREAS OF APPLICATION

Walls	✓
Floors	✓
Interiors	✓
Exteriors	✓
Dry areas	✓
Wet areas	✓
Showers	✓ (1)
Swimming Pools	✓ (2)

NOTE:

- ✓ = Suitable
- (1) Do not use the shower for at least 2 weeks following the completion of grouting.
- (2) Do not fill pool for at least 3 weeks following completion of grouting.

BACKGROUND / BASES

Brick / Concrete	✓
Cement Sand Rendering	✓
Light Weight Block	✓ (3), (4), (5)
Anhydrite Screed	✓ (4)
Unglazed Tiles	✓
Hard Natural Stone	✓
Glazed Tiles	✓

NOTE:

- ✓ = Suitable
- (3) Provide surface is sufficiently flat.
- (4) Prime with ADMIX AD 1.
- (5) Direct fixing in dry conditions only.

FEATURES

- Very high bond strength
- Non-slip
- Flexible adhesive
- Water resistant
- Easy mixing, smooth application & better workability
- Complies with the requirement of IS 15477: 2004 Type 2
- Complies with the requirement of EN 12004 C1T

PHYSICAL PROPERTIES

DIAMOND STAR White	@ 27± 2°C
Mixed Density	1.50 - 1.55 g/cc
Bed Thickness	upto 6 mm (6)
Walls*	Use 6 mm X 6 mm square notch trowel
Floors*	Use 12 mm X 12 mm square notch trowel
Mixing Ratio (p.b.w = Parts by weight)	1 p.b.w. Water to 4 p.b.w. Adhesive
Open Time	15 - 20 Minutes
Pot Life	3 hours
Setting Time	24 hours
Shear Adhesion IS 15477:2004 Type 2	
1 Day Air	6.50 kN
14 Days Air	14.50 kN
Temperature Resistance	-30°C to 150°C
VOC Content	2.62 g/L
Properties tested to EN 12004	
Tensile Adhesion EN 1348	> 0.5 N/mm ² under all test conditions
Slip resistance EN 1348	< 0.5 mm

Note:

- *Suitability depends on surface level/flatness
- (6) Up to 12mm in areas of limited extent.

COVERAGE ESTIMATES

Pack size	Coverage
2 kg & 20 kg	approx. 3.0 kg/m ² using a 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.

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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.

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*.

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

Mixing

Add DIAMOND 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)

In case of using ADMIX AD 1: Use 1 litre of ADMIX AD 1 with 3.7 - 4.2 litres of water and 20 kg of DIAMOND STAR White

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 15 - 20 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 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

DIAMOND 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.

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