VERMODA®

DIAMOND

ADHESIVE FOR FIXING EXTERNAL WALL CLADDING STONES

1. For Internal & External Floor & Wall
2. For Vitrified Tiles And External wall claddings
3. Highly Polymer Modified
4. Anti Skid Adhesive
5. For Wet and Dry Area
6. Low VOC

IS : 15477

CM/L-9100182569

Comforms to IS 15477:2019 TYPE 3 'T' S2

GREY

Available in 20 kg

WHITE

Available in 20 kg

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DESCRIPTION

VERMODA+ Diamond Adhesive is a polymer modified, thin-set tile adhesive for fixing ceramic, semi-vitreous tile, vitrified tiles & natural stones of specific size. It is suitable for both vertical and horizontal surfaces, over the cementitious substrate for indoor application as well as outdoor application, in dry as well as wet areas.

STANDARD COMPLIANCE/ SPECIFICATION

VERMODA+ Diamond Adhesive complies to the adhesion requirements of IS 15477 : 2019 Type 3 'T' S2 "Specification for Adhesives for use with Ceramic Tiles, Vitrified Tiles, Natural Stones of specific sizes and Mosaics."

AREA OF USE

Material to be fixed	On surface/ substrate	Area of application
32x64 ON FLOOR & WALLS **8x40 WALL CLADDINGS** **8X48 WALL CLADDINGS** **(INTERIOR & EXTERIOR)**	Cement-based screeds & mortars, cement-based plasters/ renders, concrete surfaces, bricks, AAC blocks, existing tiles & stones, other cement-based surfaces	Flooring and walls, for internal applications & external shaded area, external area, dry & wet area, new construction & renovation, domestic applications, commercial applications.

FEATURES AND ADVANTAGES

- Easy to use - just add water on site, ready to use.
- Ideal product for internal and external tile applications.
- Sag resistant formula: provides hassle-free application on vertical walls.
- Water resistant - suitable for wet areas.
- Good adhesive bond strength & bonds to various cement-based substrates.
- Low VOC - for healthy living.

IMITATIONS

- Do not apply directly to gypsum plaster or boards, fibre cement boards or other drywall partitions, plywood, chipboard, particle board, decorative laminates or resilient flooring, metal, plastic, deformable surfaces or subject to vibrations.

- **Adhesives for tiles mentioned above:**
  Use VERMODA+ waterproofing coating before tiling for wet area.
- Do not use for fixing artificial/ nano/ engineered stone/ composites/ metal tile.

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TECHNICAL INFORMATION

APPLICATION PROPERTIES

Testing Properties	Test Results
Tentative Mixing Ratio (Powder: Water)	Grey - 1 : 0.28 by weight White - 1 : 0.32 by weight
Mixed Density	1.7 - 1.9 kg/ litre
Open Time (IS 15477: 2019)	Approx. 30 minutes
Adjustment Time (IS 15477: 2019)	Approx. 30 minutes
Pot Life	Approx. 3 hours
Application Temperature (substrates and materials)	5°C to 35°C
Adhesive Thickness	6 - 10 mm
Setting/ Trafficable/ Grouting Time	24 hours

PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 3 'T' S2)

Testing Properties	Requirement	Test Results
a) Tensile Adhesion at Dry Condition	≥ 1.5 N/mm²	1.55 - 1. 65 N/mm²
b) Tensile Adhesion at Wet condition	≥ 1.0 N/mm²	1.10 - 1.20 N/mm²
c) Shear Adhesion at Dry Condition	≥ 1.5 N/mm²	1. 55 – 1.65 N/mm²
d) Shear Adhesion at Wet condition	≥ 1.0 N/mm²	1.15 – 1. 25 N/mm²
e) Shear Adhesion at Heat Ageing	≥ 1.0 N/mm²	1. 20 – 1. 35 N/mm²
f) Slip Resistance (T)	≤ 0.5 mm	0.3 – 0.5 mm
g) Deformability (vertical application only)	≥ 5.0 mm	5.69 mm

Note : Test results are indicative as per testing method specified in standard. Test results may vary as per substrate, site condition & testing machine etc. Actual field performance will depend on installation methods and site conditions.

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APPLICATION INSTRUCTIONS

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SUBSTRATE PREPARATION

- The substrate must be level, cured, undamaged, compact, rigid, resistant, dry and free from any debonding agents and from damp rising.
- All surfaces must be plumb and true to within 6 mm in 10 ft (3m).
- Dry, dusty surfaces should be dampened with water & excess water should be swept off.
- New concrete slabs shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface.
- Expansion joints to be provided & filled with suitable sealant.
- Do not cover expansion joints with thin set tile adhesive/ tile.

MIXING

- Add 3-3.5 parts of powder to 1 part of water or 5-6 litre water for 20 Kg powder in a clean mixing vessel.
- Adjust the water as per desired consistency.
- Mix with a suitable mechanical stirrer or slow speed drills (50-100 rpm) until a lump free homogeneous paste is obtained.
- Always mix required quantity, which can be consumed within pot life.
- Leave mixture for 5 minutes before use.
- No further water should be added.
- Apply adhesive to the substrate with the flat side of the trowel.
- Comb on additional adhesive with the notched side.
- Use the proper sized notched trowel to ensure full bedding of the tile.
- Tiles must be fixed within 15-20 minutes of adhesive being applied, depending on the porosity of the surface and atmospheric conditions.
- Check the adhesive ribs periodically and if a skin has formed, remove the dried adhesive and apply fresh adhesive.
- Press the tiles firmly into position with a slight twisting action, checking periodically that good contact is maintained with the back of each tile and beat in using rubber mallet to imbed tile and adjust level.
- Leave no voids behind tiles.
- For large size tiles or irregular surfaces, adhesive can additionally be buttered on the backs of the tiles to ensure full adhesive contact.
- Use suitable support along with adhesive for fixing tiles on vertical surfaces.
- Leave adequate joints between individual wall and floor tiles using tile spacers. The joint width shall be as per the recommendation of architect / engineer.
- Clean off surplus adhesive from the tile face and between joints.
- Clean tools and tile work with water while adhesive is fresh.

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PRECAUTIONS & NOTE

- Always add powder to water.
- Do not add excess water than recommended.
- Never add sand & cement at site.
- Do not use on wet screed. Surface must be fully cured.
- Do not use the adhesive to correct surface irregularities greater than tile thickness.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Leave gap between the tile & fill gaps with VERMODA+ tile grout and Epoxy grout.

COVERAGE:

Approx. 55-60 sq. ft. per 20 kg bag using a 1/4 X 1/4 (6mm X 6mm) notch trowel for a bed of 3mm.

Coverage will vary depending on trowel notch size, type, size of tile and substrate smoothness and evenness.

PACKAGING

- Grey-20 kg bag only
- White 20 kg bag only

SHELF LIFE

12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

GROUTING

Grouting should be carried out after 24 hours of tiling. Use the appropriate grouting material from VERMODA+ range of cementitious and epoxy grouts.

SAFETY 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. Limited to professional use only.

For more details please refer the relevant Material Safety Data Sheet, available on request.

Works at:
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