

TECHNICAL DATA SHEET

Product Name: MARMOFLEX-S

Manufacturer :

ANAV INDUSTRIES

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Marketed By/ Exporter:

MARMO SOLUTIONS PVT. LTD.

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1. Product Description:

Marmoflex-S is a premium, cement-based, polymer-modified adhesive classified as C2TE(SAS) under EN 12004 standards and T3S1 under IS:15477:2019. It is formulated for the installation of Large format ceramic, porcelain, and natural stone tiles in both interior and exterior environments. Marmoflex-S offers enhanced bonding strength, excellent flexibility, extended open time, and slip resistance, making it ideal for challenging installations, including vertical applications.



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Product Features:

- **Cement-Based Polymer-Modified Adhesive:** Ensures high adhesion and flexibility.
- **C2TE(SAS) and T3S1 Classification:** High-performance adhesive with improved bonding strength, extended open time, and slip resistance.
- **Slip Resistance:** Suitable for vertical applications, minimizing tile slippage during installation.
- **Extended Open Time:** Allows for easier handling and tile adjustment during application.
- **Water and Heat Resistant:** Ideal for wet areas such as bathrooms and kitchens, and capable of withstanding temperature changes.
- **Strong Shear Strength:** Provides excellent performance in high-stress applications, including heavy tiles and exterior facades.
- **Tile Installation:** Suitable for ceramic, porcelain, vitrified, and natural stone tiles.
- **Interior and Exterior Use:** Can be used on both walls and floors, indoors and outdoors.
- **Wet Areas:** Ideal for bathrooms, kitchens, swimming pools, and other moisture-prone areas.
- **Deformable (S1):** Accommodates structural movements, making it ideal for use on substrates that experience thermal or mechanical stresses.



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Technical Specifications:

- **Classification:** C2TE(SAS) (EN 12004) and T3S1 (IS:15477:2019)
- **Component Type:** Cement-based, polymer-modified
- **Color:** Gray or white
- **Mixing Ratio:** Approx. 4.5 – 5 liters of ≤ 200 ts water per 20 KG bag
- **Open Time:** 40 minutes
- **Pot Life:** 4 - 5 hours at 25°C
- **Adjustability Time:** ≥ 30 minutes
- **Application Temperature:** +5°C to +35°C
- **Slip Resistance:** ≤ 0.5 mm
- **Initial Bond Strength:** ≥ 1.5 N/mm² (after 28 days)
- **Bond Strength after Water Immersion:** ≥ 1.5 N/mm²
- **Bond Strength after Heat Aging:** ≥ 1.5 N/mm²
- **Bond Strength after Freeze-Thaw Cycles:** ≥ 1.5 N/mm²
- **Deformability:** ≥ 2.5 mm upto 5.0mm
- **Coverage:** 1.3 kg/m² per mm thickness (approx. 4-6 kg/m² depending on tile size and substrate)
- **Shelf Life:** 12 months in original, unopened packaging
- **Packaging:** 20 KG bags



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Application Guidelines:

1. Surface Preparation:

- Ensure the substrate is structurally sound, clean, and free from dust, grease, or loose materials.
- Pre-dampen absorbent surfaces before applying Marmoflex-S, but avoid leaving standing water.

2. Mixing Instructions:

- Add approximately 4.5–5 liters of clean ≤ 200 tds water to a 20 KG bag of Marmoflex-S adhesive.
- Mix with a mechanical mixer until a smooth, homogenous consistency is achieved.
- Allow the mixture to rest for 5 minutes and then re-stir before use.

3. Application Method:

- Use a notched trowel to spread the adhesive evenly on the substrate.
- Press tiles firmly into the adhesive, ensuring proper bonding within the open time of 40 minutes.
- For large format tiles or heavy stone, back-buttering may be necessary for full adhesion.
- Adjust tiles within the adjustability time of 40 minutes.

4. Grouting:

- Allow 24 hours of curing time before grouting. Ensure proper joint width for movement accommodation.



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Storage and Handling:

- **Storage:** Store in a cool, dry place away from moisture. Keep the packaging sealed when not in use.
- **Handling:** Wear protective gloves and goggles while handling the product. In case of skin or eye contact, rinse thoroughly with clean water. If inhaled, move to fresh air and seek medical attention if necessary.

Health and Safety:

Refer to the product's Safety Data Sheet (SDS) for detailed information on safe handling practices, disposal, and health precautions. Follow local regulations regarding product handling and disposal.

