MARMO SOLUTIONS
MARBLE & TILE SOLUTION PRODUCTS

TECHNICAL DATA SHEET



Product Name: MARMOFLEX-S

Manufacturer :
ANAV INDUSTRIES
Address: Khewat No. 1358/1151,
Khatoni No. 1461, Main NH-9, Near Toll Plaza, Village Rohad, Dis. Jhajjar, Haryana- 124501
Marketed By/ Exporter:
MARMO SOLUTIONS PVT. LTD.
Office Address :
MUMBAI: 47A, Ground And First Floor, Parmar Compound, Highway Road,
Vile Parle East, Mumbai - 400099
DELHI: WHS, 1/18, 2nd Floor Kirti Nagar, Near
Richi Rich, New Delhi - 110 015
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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, TYPE 3TS1 under IS:15477:2019 and ANSI A118.4 standards. 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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2. Product Features:

- **Cement-Based Polymer-Modified Adhesive:** Ensures high adhesion and flexibility.
- **C2TE(SAS) and 3TS1 Classification:** High-performance adhesive with improved bonding strength, extended open time, and slip resistance.
- **Deformable (S1):** Accommodates structural movements, making it ideal for use on substrates that experience thermal or mechanical stresses.
- **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.

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3. Product Specifications:

. **Classification:** C2TE(SAS) (EN 12004) , 3TS1 (IS:15477:2019)

- **Component Type:** Cement-based, polymer-modified
- **Color:** Grey or white
- **Packaging:** 20 KG bags
- **Mixing Ratio:** Approx. 4.5 - 5 litres of ≤200 tds 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:** ≥1.5N/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 5.0 mm
- **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 (Under 25°C)

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4. 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 litres 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 of40 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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5.Storage and Handling:

• Storage:

Store in a cool, dry place (under 25°C) 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.

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6.DO'S & DON'TS

• DO'S

• Substrate must be sound, clean, dry, and properly cured

• Do mix the adhesive strictly as per the recommended water ratio, using clean potable water.

• Do fix tiles within the open time of the adhesive to achieve proper bonding.

• Do allow adequate curing time before grouting or allowing foot traffic.

• Do clean tools and excess adhesive immediately with clean water before the material hardens.

• Application conditions must comply with recommended temperature and site conditions.

• Do use back-buttering for large-format tiles and heavy natural stones to ensure full adhesive contact.

• Do provide movement/expansion joints as per structural design and do not bridge them with adhesive.

• Do mechanically roughen, smooth surfaces where required.

• DON'TS

• Not suitable for application on non-cementitious substrates.

• Do not use on uneven or weak substrates; level and repair the surface before application.

• Do not mix with excess water or add cement, sand, lime, or any other additives to the adhesive.

• Do not apply on wet, damp, or uncured surfaces.

• Do not apply adhesive beyond its open time; discard material that has started to skin or dry.

• Do not allow foot traffic or grouting before the recommended curing time.

• Do not store opened bags for extended periods; use opened material immediately.

• Do not apply on substrates subject to excessive vibration or structural movement without proper engineering provision.

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