

TECHNICAL DATA SHEET

Product Name: MARMOFLEX-S1

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

Tel. No: +91 11 40586081

Website: www.marmosolutions.com

E-Mail ID: info@marmosolutions.com

Office hours: Monday to Saturday (10AM-6PM)

1. Product Description:

Marmoflex-S1 is a high-performance, cement-based, polymer-modified adhesive, classified as C2TES1 under EN 12004 and T4S1 under IS:15477:2019 standards. This deformable adhesive is specifically designed for installing ceramic, porcelain, and natural stone tiles in environments that experience substrate movement, such as floors with underfloor heating or exterior facades. Marmoflex-S1 offers excellent flexibility, strong bonding, and extended open time, making it ideal for both interior and exterior use in demanding applications.



TECHNICAL DATA SHEET

Product Name: MARMOFLEX-S1

Product Features:

- **Cement-Based Polymer-Modified Adhesive:** Formulated to provide high adhesion, flexibility, and deformability.
- **C2TES1 Classification:** High-performance adhesive with enhanced bond strength, extended open time, and slip resistance, suitable for substrates with movement.
- **Deformable (S1):** Accommodates structural movements, making it ideal for use on substrates that experience thermal or mechanical stresses.
- **Extended Open Time:** Provides more workability time, allowing for easier tile placement and adjustments during installation.
- **Slip Resistance:** Suitable for vertical applications with minimal tile slippage.
- **Water and Heat Resistance:** Performs well in areas exposed to moisture and temperature fluctuations, such as bathrooms and kitchens.
- **Durable in Freeze-Thaw Cycles:** Suitable for exterior use in cold climates, resisting damage caused by freeze-thaw cycles.
- **Strong Adhesion:** Ensures reliable bonding for large-format tiles and natural stones, even on challenging substrates.
- **Facade Tiling:** Perfect for vertical tiling applications that require deformability and strength.



TECHNICAL DATA SHEET

Product Name: MARMOFLEX-S1

Technical Specifications:

- **Classification:** C2TES1 (EN 12004) and T4S1 (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:** 30 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 and 50 KG bags



TECHNICAL DATA SHEET

Product Name: MARMOFLEX-S1

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-S1, 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-S1 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.



TECHNICAL DATA SHEET

Product Name: MARMOFLEX-S1

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.

