

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 (10 AM- 6 PM)



1. Product Description:

Marmoflex-S1 is a high-performance, cement-based, polymer-modified adhesive, classified as C2TES1 under EN 12004, T4S1 under IS:15477:2019 and ANSI A118.15 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.

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2. Product Features:

- **Cement-Based Polymer-Modified Adhesive:** Formulated to provide high adhesion, flexibility, and deformability.
- **EN: C2TES1, IS: TYPE-4T and ANSI A118.15 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.

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3. Product Specifications:

- **Classification:** C2TES1 (EN 12004), 4TS1 (IS:15477:2019) and ANSI A118.15
- **Component Type:** Cement-based, polymer-modified
- **Color:** Grey or white
- **Packaging:** 20 KG and 50 KG bags
- **Mixing Ratio:** Approx. 4.5 - 5 litres of ≤ 200 tds 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
- **Tensile Adhesion**
 - a) **Dry Condition:** ≥ 1.5 N/mm²
 - b) **Wet Condition:** ≥ 1.0 N/mm²
- **Shear Adhesion**
 - a) **Dry Condition:** ≥ 1.5 N/mm²
 - b) **Heat Ageing:** ≥ 1.0 N/mm²
 - c) **Wet Condition:** ≥ 1.0 N/mm²
- **Deformability:** ≥ 2.5 mm up to 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 (Under 25°C under dry conditions).

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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-S1, 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-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.

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5.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 stone/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 use in areas subjected to thermal expansion and contraction, such as balconies, terraces, facades, and underfloor heating systems.
- Do ensure movement joints are installed at 3–5 m intervals in interior areas and 2–3 m in exterior areas.
- Do mechanically support large format stone during installation on the overhead until initial set.
- Install up to 20 mm stone.

• DON'TS

- Do not bridge structural expansion joints.
- Do not use on uneven or weak substrates; level and repair the surface before application.
- Do not apply on wet, damp, or uncured surfaces.
- Do not rely solely on adhesive deformability to compensate for structural design deficiencies.
- Do not allow foot traffic or grouting before the recommended curing time.
- Do not apply on substrates with active cracks wider than 0.5 mm without proper crack isolation treatment.

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6.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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TC-9061

GVM TEST HOUSE
AND RESEARCH CENTRE PVT. LTD.

TESTING | TRAINING | AUDITING

Test Order Ref: GVM/TA/09627-2/03/2026
ULR: TC90612600000910F

Date: 27.02.2026
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MARMO SOLUTIONS PRIVATE LIMITED

Ground and 1st Floor, Shop No. 47 A, Parmar Compound,
Near Laxmi Narayan Temple, Highway Road,
Vile Parle East Mumbai, Maharashtra-400099

TEST REPORT ON TILE ADHESIVE

Source of Sample : Sample supplied by the customer.
Number of samples Tested : 01 (One only).
Customer's Reference : Request dt. -28.01.2026
Lab Reference Number : 2026/JAN/09627-2
Date of Receipt : 28.01.2026
Condition of sample : Satisfactory
Sample Identification # : Marmoflex S1 White Tile Adhesive
Water Powder Ratio # : 23 %
Period of Test : 29.01.2026 to 26.02.2026
Technical Reference : IS: 15477:2019

PHYSICAL PROPERTIES:

Sl. No.	Test Conducted	Average Results	Requirements As per IS: 15477-2019				
			Type 1	Type 2	Type 3	Type 4	Type 5
1	Tensile Adhesion (N/mm ²)						
	a) Dry Condition	1.99	Min. 0.5	Min. 1.0	Min. 1.5	Min. 1.5	Min. 2.0
	b) Wet Condition	1.48	-	Min. 1.0	Min. 1.0	Min. 1.0	-
2	Shear Adhesion (N/mm ²)						
	a) Dry Condition	1.79	Min. 1.0	Min. 1.25	Min. 1.5	Min. 1.5	Min. 6.0
	b) Heat Ageing	1.44		Min. 1.0	Min. 1.0	Min. 1.0	Min. 3.0
	c) Wet Condition	1.39	-	Min. 1.0	Min. 1.0	Min. 1.0	-
3	Open Time (Minutes)	35	Not Specified				
4	Adjustability (Minutes)	40	Not Specified				
5	Slip (mm)	0.26	Shall not be more than 0.5 mm				
6	Deformability (mm)	3.12	Deformable adhesive, S1 ≥2.5 mm, < 5.0 mm Highly deformable adhesive, S2 ≥ 5.0 mm				

As furnished by the customer.

Remark: Marmoflex S1 White Tile Adhesive conform to the requirements of Type-4 'T' S1 Tile Adhesive as per IS 15477-2019.

- Note:
- The results relate only to the items tested.
 - Report shall not be reproduced except in full, without the written approval of the lab.
 - Any correction invalidates this report.

For GVM TEST HOUSE AND RESEARCH CENTRE PVT. LTD.



DINESH BURDE
[Signature]
Authorised Signatory



Reviewed by
[Signature]
Ashok Nagar





Confederation of Indian Industry

CII-Green Products and Services Council

hereby certifies that

Marmo Flex S-1

(GPAVI146001)

*Mfg by Anav Industries, Mktd by Marmo Solution Pvt Ltd at Jajjar, Haryana meets
the requirements of GreenPro Ecolabel and qualifies as Green Product.*

*This certification is valid till **December 2027***

Jamshyd N Godrej
Chairman, CII-Godrej GBC

A R Unnikrishnan
Chairman, CII-Green Products & Services Council

K S Venkatagiri
Executive Director, CII-Godrej GBC

Supporting Council and programmes

