

TECHNICAL DATA SHEET

Product Name: MARMOFLEX-T

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-T is a high-performance, cement-based, polymer-modified EN: C2TE, IS: Type- 3TS1 and ANSI A118.4 standard adhesive developed for demanding tile and natural stone installations. It delivers high bond strength, enhanced flexibility, extended open time, and excellent slip resistance, making it suitable for medium to large format tiles, heavy stones, vertical applications, and interior and exterior areas, including wet and high-stress environments, in accordance with EN 12004, IS 15477:2019 and ANSI A118.4.

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2. Product Features:

- **Cement-Based Polymer-Modified Adhesive:** Ensures high adhesion and improved flexibility.
- **EN: C2TE, IS: TYPE 3TS1 and ANSI A118.4 Classification:** High-performance adhesive with improved bonding strength, extended open time, and slip resistance.
- **Thixotropic Formulation:** High resistance to heavy stone tile slippage on vertical surfaces without sagging during installation.
- **Slip Resistance:** Suitable for vertical applications, minimizing tile slippage during installation.
- **Extended Open Time:** Allows for easier handling and stone 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 stone tiles and exterior facades with limited movement.
- **Tile Installation:** Suitable for ceramic, porcelain, vitrified, and heavy 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 (EN 12004), 3T (IS:15477:2019) and ANSI A118.4
- **Component Type:** Cement-based, polymer-modified
- **Colour:** 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:** Up to 40 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 N/mm²
- **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 at 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-T, but avoid leaving standing water.
- Uneven surfaces must be levelled and repaired before stone tile installation.

2. Mixing Instructions:

- Add approximately 4.5-5 litres of clean ≤ 200 tds water to a 20 KG bag of Marmoflex-T 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.
- Comb the adhesive in one direction only to ensure uniform bed thickness.
- Press the stone or tile 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 stone or tile 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 ≤ 200 Tds 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 provide expansion and movement joints as per structural design and do not bridge them with adhesive.

• 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 the opened material immediately.

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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/09627-6/03/2026
ULR: TC90612600000914F

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/09627-6
Date of Receipt : 28.01.2026
Condition of sample : Satisfactory
Sample Identification # : Marmoflex T Whit 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	1.75	Min. 0.5	Min. 1.0	Min. 1.5	Min. 1.5	Min. 2.0
	b) Wet Condition	1.32	-	Min. 1.0	Min. 1.0	Min. 1.0	-
2	Shear Adhesion (N/mm ²)						
	a) Dry Condition	1.69	Min. 1.0	Min. 1.25	Min. 1.5	Min. 1.5	Min. 6.0
	b) Heat Ageing	1.34	-	Min. 1.0	Min. 1.0	Min. 1.0	Min. 3.0
	c) Wet Condition	1.21	-	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)	0.24	Shall not be more than 0.5 mm				
6	Deformability (mm)	2.58	Deformable adhesive, S1 ≥ 2.5 mm, < 5.0 mm Highly deformable adhesive, S2 ≥ 5.0 mm				

As furnished by the customer.

Remark: Marmoflex T White Tile Adhesive conform to the requirements of Type-3 '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]

GVM TEST HOUSE
AND RESEARCH CENTRE PVT. LTD.

Authorised Signatory



Reviewed by

[Signature]
Ashok Nagar





Confederation of Indian Industry

CII-Green Products and Services Council

hereby certifies that

Marmo Flex - T

(GPAVI146003)

*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

