

TECHNICAL DATA SHEET

Product Name: MARMONAILS

Registered Office:

MARMO SOLUTIONS PVT. LTD.

(AN ISO 9001:2015 CERTIFIED COMPANY)

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 - 110015

Customer No: +91 11 40586081

Web.: www.marmosolutions.com

For any query/feedback

E-Mail: info@marmosolutions.com

CIN : U74140DL2013PTC252178

E-Mail ID: info@marmosolutions.com

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



1. Product Description:

Marmonails is a single-component, hybrid polyurethane adhesive and sealant, designed for dual purposes strong bonding and sealing of movement gaps. Available in a white color and packaged in 600ml pouches (900 gm), Marmonails is applied using a standard gun in a zigzag pattern. This product offers excellent flexibility, adhesion, and durability, making it ideal for various construction applications, including bonding and sealing.

Manufactured by:

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:

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2. Product Features:

- **High Strength Bonding:** Superior adhesion to a wide range of surfaces, including natural stone, concrete, metal, and ceramic.
- **Single-Component:** Ready-to-use with no mixing required.
- **Dual Functionality:** Acts as both an adhesive and a sealant.
- **Flexible & Durable:** Withstands movements and vibrations without cracking.
- **Weather-Resistant:** Ideal for indoor and outdoor use, providing long-term durability.
- **White Colour:** Perfect for visible joints, providing a clean and professional finish.
- **Easy Application:** Packaged in a 600ml pouch (900 gm), applied with a gun in a zigzag pattern for efficient use.
- **Ideal for Diverse Surfaces:** Works well on boards, metal, masonry surfaces, and other critical substrates.

3. Applications:

- **Adhesive:** For bonding materials such as metal, wood, stone, all kinds of boards* and other construction materials.
- **Sealant:** Suitable for sealing movement gaps in joints that require flexibility.
- **Movement Joints:** Ideal for sealing expansion or contraction gaps in both indoor and outdoor environments.

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4. Product Specifications:

- **Component Type:** Single-component hybrid polyurethane
- **Classification:** R2T (EN 12004-1:2017), 5TS2 (IS:15477:2019) and ANSI A118.5
- **Color:** White
- **Application Method:** Applied using a gun in a zigzag pattern
- **Packaging:** 600 ml pouch (900 gm)
- **Density:** ~1.4 g/cm³
- **Skin Formation Time:** 30-40 minutes at 25°C
- **Curing Time:** 2-3 mm per 12 hours at 25°C
- **Shore A Hardness:** 40-45
- **Movement Accommodation Factor (MAF):** ± 25%
- **Elongation at Break:** ≥ 300%
- **Tensile Adhesion**
 - a) **Dry Condition:** ≥ 2.0 N/mm²
 - **Shear Adhesion**
 - a) **Dry Condition:** ≥ 6.0 N/mm²
 - b) **Heat Ageing:** ≥ 3.0 N/mm²
- **Deformability (S2):** ≥ 5 mm
- **Full Cure:** 48 hours – 7 DAYS
- **Application Temperature:** +5°C to +40°C
- **Shelf Life:** 8 months in original, unopened packaging (Under 25°C at dry conditions)
- **Coverage:** Approx. 66 RM for (3x3 Beading)

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5. Application Guidelines:

1. Surface Preparation:

- Ensure surfaces are clean, dry, and free from any contaminants such as dust, grease, or oils.
- For porous surfaces, a primer may be required to enhance adhesion.

2. Application Method:

- Cut the nozzle of the pouch to the desired width for application.
- Using a caulking gun, apply Marmonails in a zigzag pattern for adhesive applications.
- For sealing movement gaps, fill the gap ensuring even coverage and smooth the bead with a suitable tool.

3. Curing Time:

- Allow Marmonails to cure for at least 48 hours before subjecting it to heavy loads or movements.
- Full cure depends on the thickness of the material applied and environmental conditions.

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6.DO'S & DON'TS

• DO'S

- Substrate must be sound, clean, dry, and properly cured.
- Do lightly roughen the smooth metal or coated surfaces before bonding.
- Do apply adhesive in continuous beads or a zigzag pattern to ensure uniform load distribution.
- Do maintain recommended bead thickness (minimum 3–5 mm) to allow elastic movement.
- Do provide temporary mechanical support or clamping for heavy stone or large panels until initial curing is achieved.
- Do fix stone/ tiles within the open time of the adhesive to achieve proper bonding.
- Application conditions must comply with recommended temperature and site conditions.
- Verify the stone's translucency before application.
- Use the entire tube at a time once opened. Do not store it for later use.

• DON'TS

- Do not dilute, mix with solvents, or combine with other materials.
- 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 apply adhesive beyond its open time; discard material that has started to skin or dry.
- Do not leave an open tube exposed to air for extended periods.
- Do not assume adhesion to painted surfaces without surface preparation.
- Do not apply adhesive in spot bonding.

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7.Storage and Handling:

Storage:

- Store in a cool, dry place at temperatures between +5°C and +25°C. Protect from direct sunlight and moisture.

Handling:

- Use appropriate personal protective equipment (gloves, masks, etc.) when handling the product. In case of skin or eye contact, wash thoroughly with water.

Health and Safety:

- Refer to the product's Safety Data Sheet (SDS) for comprehensive safety information.
- Dispose of any leftover material and packaging in accordance with local regulations.

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