



HYDA CON
Innovative chemical solutions

Technical Data Sheet

HYDAFILLO TRS 14

ABOUT HYDAFILLO TRS 14

HYDAFILLO TRS 14 is a high-viscosity, transparent thixotropic adhesive formulated for vertical bonding and repair of white marbles. The product is designed for ease of stirring and spreading, especially in hot climates where it offers extended storage stability. Once cured, it can be polished and maintains good resistance to sunlight, ensuring long-term performance in both indoor and outdoor environments.

SURFACE APPLICATION MATERIALS

- White Marbles
- Vertical Stone Surfaces
- Fine-Grained Natural Stones
- Light-Colored Decorative Stones

RECOMMENDED SURFACES / SUBSTRATES

- Dry and Clean Marble
- Indoor & Outdoor Vertical Installations
- Polished Marble Panels
- Stones with Smooth or Thixotropic Compatibility

APPLICATION AREAS

- Vertical Joint Bonding
- Stone Panel Restoration
- Crack Repairs on White Marbles
- Hot Climate Stone Installations

PRODUCT HIGHLIGHTS

- ❖ **THIXOTROPIC CONSISTENCY** – Excellent for vertical application without sagging
- ❖ **HIGH VISCOSITY** – Easy to apply and spread across surfaces
- ❖ **POLISHABLE FINISH** – Achieves a smooth, finished look after curing
- ❖ **UV RESISTANT** – Stable under exposure to sunlight

- ❖ **SUITABLE FOR HOT CLIMATES** – Maintains stability and usability in warm environments
- ❖ **COLOUR-ADJUSTABLE** – Can be tinted using coloring pastes or metal oxides (prior to catalyst)
- ❖ **SAFE APPLICATION** – Follow safety data and container instructions
- ❖ **SHELF-STABLE** – 12-month shelf life in sealed containers at 18–25°C

TECHNICAL DETAILS

PROPERTY	TEST METHOD / CONDITIONS	HYDAFILLO TRS 14 VALUE
Viscosity at 25°C (20 r.p.m.)	ASTM D2196	Thixotropic paste
Density at 25°C	-	1.1 g/cm ³
Aspect	-	Pinky paste / ice-like appearance
Mixing Ratio (Glue : Hardener)	-	100 : 2–3
Gel Time (Bulk) at 25°C	-	6–10 minutes
Tacky-Free Time (Thin Layer) at 25°C	-	Approx. 1h 30min – 2h
Recommended Working Time at 25°C	-	Approx. 2–3 hours
Minimum Reaction Temperature	-	0°C
Minimum Service Temperature After Hardening	-	0°C
Maximum Service Temperature After Hardening	-	+110°C
Shelf Life at 25°C	-	12 months
Ultimate Tensile Strength	ASTM D638	50 MPa
Tensile Elongation	ASTM D638	>2%
Tensile Modulus	ASTM D638	4000 MPa
Flexural Strength (Breaking Load)	ASTM D790	110 MPa

Adhesion Strength after 2 hrs (25°C, Botticino polished)	ASTM D4541	3.5 MPa
Adhesion Strength after 24 hrs (25°C, Botticino polished)	ASTM D4541	4.0 MPa

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. Ensure the marble or stone surface is clean, dry, and free of dust.
2. Remove the required amount of HYDAFILLO TRS 14 from its container
3. Add 2–3% liquid catalyst by weight to the resin.
4. Stir energetically until fully mixed and apply the product immediately
5. For color adjustment, add pigment before the catalyst. Mix catalyst last after matching the color
6. Do not pour unused mixed resin back into the original container.
7. Store both glue and catalyst in a cool, shaded area away from direct sunlight

TOOL & EQUIPMENT CARE

- Use clean tools for mixing and apply HYDAFILLO TRS 14
- Clean tools immediately after use with suitable solvents (e.g., acetone).
- Seal containers after use to maintain product integrity
- Avoid prolonged exposure of the product to air or moisture

PRO TIPS & PRECAUTIONS

- ✓ Wear gloves and protective eyewear while handling the product
- ✓ Always refer to the Safety Data Sheets for both resin and hardener before use
- ✓ Store HYDAFILLO TRS 14 away from direct sunlight, humidity, and heat sources
- ✓ Prevent ingestion, inhalation, and contact with skin and eyes
- ✓ Do not reuse or return mixed or unused resin to the original container

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING

- 1 Litre
- 5 Litre

SHELF LIFE

- Minimum 12 months when stored between 18–25°C
- Must be kept away from sunlight, moisture, and heat sources

STORAGE LIFE:

- Store in cool, dry , well-ventilated places
- Avoid exposure to extreme temperature variations
- Keep containers tightly sealed when not in use

SAFETY & APPLICATION GUIDELINES FOR HYDAFILLO TRS 14

1. PERSONAL PROTECTION

- Always wear gloves, goggles, and suitable protective equipment

2. EMERGENCY PROCEDURES

- Skin Contact: Wash thoroughly with soap and clean water
- Eye Contact: Rinse immediately with plenty of water and seek medical advice
- Inhalation: Move to fresh air and consult a doctor if needed

3. DISPOSAL

- Do not dispose of in open environments or drains
- Follow local environmental laws for chemical waste disposal

MAINTENANCE GUIDELINES

- Store correctly to preserve adhesive quality.
- Use accurate mixing proportions by weight.
- Prevent contamination between resin and hardener
- Mix thoroughly to ensure proper curing and adhesion

PERFORMANCE LIMITATIONS

- Not suitable for wet or dirty substrates
- Avoid use with incompatible materials like copper, brass, or PVC
- Always conduct a small patch test before large-scale use
- Product performance may vary based on ambient conditions (humidity and temperature)

End of TDS