

TECHNICAL DATA SHEET (TDS)

UNIMAX

Adhesive, Joint & Surface Filler

1. PRODUCT DESCRIPTION

UNIMAX is a low-viscosity, two-component epoxy resin system formulated with a modified amine hardener. It is designed for deep penetration and reliable filling of cracks, fissures, pores and surface imperfections in natural and engineered stone. Its fluid consistency enables effective penetration into fine openings while providing excellent strength, grinding and polishing performance after curing.

2. SPECIAL FEATURES

- Low viscosity & deep penetration
- Fast and reliable curing
- Excellent filling performance
- Solvent-free
- Weather resistant
- Easy grinding & polishing
- Improves surface strength
- Pale, transparent appearance

3. ADVANTAGES

- Excellent penetration into fine cracks and pores
- Strong adhesion and mechanical performance
- Improves the structural integrity of treated stone
- Helps enhance the final surface quality
- Good resistance to weathering
- Easy to grind and polish after curing
- Suitable for natural and engineered stone
- Low-viscosity liquid allows effective treatment of larger fissures

4. APPLICATION AREA

- Natural & engineered stones
- Building materials
- Cracks, fissures & pores
- Fiber reinforcement

5. PACKAGING

5 kg Set — 4 kg Resin + 1 kg Hardener
1.25 kg Set — 1 kg Resin + 250 g Hardener

6. STORAGE & SHELF LIFE

12 months when stored in a cool, dry place in the original sealed container, away from direct sunlight.

7. APPLICATION PROCEDURE

- The stone surface should be properly calibrated to the required nominal thickness and must be clean, dry and free from dust, oil and other contaminants.
- Pre-warming the surface to approximately 60–70°C can improve the penetration of UNIMAX into cracks and pores.
- Mix 4 parts by weight of Resin (Component A) with 1 part by weight of Hardener (Component B).
- Mix thoroughly until a completely homogeneous mixture is obtained.
- The standard mixing ratio is Resin : Hardener = 4 : 1 by weight.
- At 25°C, the mixed product remains workable for approximately 15–20 minutes.
- Apply the mixed material using a fine-toothed spreader or suitable application tool.
- For wide or deep fissures, multiple applications may be required to achieve complete filling.
- Treated surfaces can generally be further processed, tooled or subjected to normal loads after approximately 24 hours under standard conditions.
- When the stone surface is pre-warmed to approximately 60°C, curing may be completed in approximately 3 hours.
- Higher temperatures accelerate curing, while lower temperatures extend the curing time.
- Clean tools immediately after use with a suitable Unicstone Poxy Remover.

8. PRECAUTIONS & HINTS

- For optimum mechanical strength and chemical performance, always maintain a 4:1 Resin-to-Hardener ratio by weight.
- Incorrect proportions or excessive Resin/Hardener may result in incomplete curing, softening or surface discoloration.
- UNIMAX may slightly deepen the colour of the treated stone, particularly inside fissures. A small patch test is recommended before full-scale application.
- Wear suitable protective gloves during handling and application.
- Use separate spatulas, spoons or vessels for Resin and Hardener to prevent contamination.
- Do not use the product if the resin has gelled, thickened or otherwise changed from its original condition.

Manufactured For & Marketed By:

UNICSTONE

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ISO CERTIFIED COMPANY



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STONE ADHESIVES | SEALERS | CLEANERS
POLISH | PROTECTION COMPLETE RANGE
FOR STONE INSTALLATION & CARE

- Do not apply below 15°C, as curing may be significantly delayed or incomplete.
- Prolonged exposure of the cured material to temperatures above 70°C may cause yellowing.
- Fully hardened material can generally be removed only by mechanical methods and/or extreme heat above 200°C.
- Refer to the relevant Safety Data Sheet (SDS) for detailed handling and safety information.

9. TECHNICAL DATA

Typical values determined according to relevant DIN testing methods.

DENSITY

Resin	: 1.14 g/cm ³
Hardener	: 0.97 g/cm ³

WORKING TIME AT 20°C

15°C	: >50 min
20°C	: 18–22 min
30°C	: 15–20 min
40°C	: 10–15 min

Colour	: Pale Transparent
Viscosity	: Approx. 155 cP @ 25°C

10. MECHANICAL PROPERTIES

Tensile Strength	: 50–60 N/mm ²
Bending Strength	: >75 N/mm ²

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