

TECHNICAL DATA SHEET (TDS)

WHITEX GEL

Adhesive, Joint & Surface Filler

1. PRODUCT DESCRIPTION

WHITEX GEL is a solvent-free, two-component epoxy adhesive gel formulated with a cycloaliphatic amine hardener. It is designed for strong bonding, joint filling and surface repair of natural and engineered stones, with excellent resistance to yellowing.

2. SPECIAL FEATURES

- Gel consistency with excellent vertical stability
- Strong adhesion to natural & engineered stones
- Low shrinkage
- Excellent resistance to weathering
- Minimal yellowing
- Solvent-free formulation
- Suitable for thin adhesive joints
- Excellent grinding and polishing properties
- Compatible with various light-coloured stone surfaces
- Suitable for selected plastics and other construction materials

3. ADVANTAGES

- High creep resistance on vertical surfaces
- Low stress development during curing
- Good alkali resistance
- Excellent dimensional stability
- Compatible with solvent-sensitive substrates
- Excellent surface finishing after curing
- Suitable for light-coloured stone applications
- Post-cured material is suitable for food-contact applications

4. APPLICATION AREA

- Natural & engineered stones
- Marble & granite
- Building materials
- Plastics
- Polyester
- Paper & wood
- Glass
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5. PACKAGING

2.25 kg Set — 1.5 kg Resin + 0.75 kg Hardener

6. STORAGE & SHELF LIFE

Shelf life is approximately 12 months when stored in the original sealed container under cool and dry conditions, away from direct sunlight and excessive heat.

7. APPLICATION PROCEDURE

- Clean and lightly abrade the bonding surfaces before application.
- Ensure surfaces are dry and free from dust, oil and contaminants.
- Mix 2 parts Resin (Component A) with 1 part Hardener (Component B) by weight.
- Mix thoroughly until a uniform, homogeneous gel is obtained.
- Colour adjustment can be achieved by adding suitable Unicstone Tint, up to 5% of the total mixture.
- Working time at 20°C is approximately 15–20 minutes.
- Bonded components can generally be transported after 6–8 hours.
- Further tooling and load application can normally be carried out after 12–16 hours.
- Maximum mechanical strength is generally achieved after approximately 7 days at 20°C.
- Higher temperatures accelerate curing, while lower temperatures slow the curing process.
- Clean tools immediately after use with Unicstone Poxxy Remover.

8. PRECAUTIONS & HINTS

- Maintain the recommended 2:1 Resin-to-Hardener ratio by weight for optimum mechanical and chemical performance.
- Incorrect proportions may result in softening, incomplete curing or discoloration.
- A small patch test is recommended before application, particularly on light or colour-sensitive stones.
- Wear suitable protective gloves during handling and application.
- Always use separate tools or containers for Resin and Hardener.
- Resin may crystallize slightly during prolonged storage; gentle warming can restore it to a workable condition.
- Do not use the product if it has gelled or significantly thickened.

Manufactured For & Marketed By:

UNICSTONE

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- Do not apply below 10°C, as curing may be delayed or incomplete.
- Prolonged exposure of cured material above 50°C may increase the possibility of yellowing.
- Fully cured material can generally be removed only by mechanical methods or extreme heat above 200°C.
- Refer to the Safety Data Sheet (SDS) for detailed safety and handling information.

9. TECHNICAL DATA

Typical values determined in accordance with DIN 53452 and DIN 53455.

DENSITY

Resin	: 1.16 g/cm ³
Hardener	: 1.07 g/cm ³

Working Time (min:sec)

Mixture of 400 gm Resin + 100 gm Hardener	
At 10°C	: Approx. 40:00 min
At 20°C	: 15:00–20:00 min
At 30°C	: 12:30–17:30 min
At 40°C	: 10:00–15:00 min

WORKING TIME AT 20°C — VARYING QUANTITIES

MIXTURE

WORKING TIME

20 g Resin + 10 g Hardener	: 15:00–20:00 min
50 g Resin + 25 g Hardener	: 15:00–20:00 min
100 g Resin + 50 g Hardener	: 10:00–15:00 min
300 g Resin + 150 g Hardener	: 10:00–15:00 min

SHORE D HARDNESS

CURING TIME

HARDNESS

3 hours	: 42
4 hours	: 62
5 hours	: 72
6 hours	: 77
7 hours	: 78
8 hours	: 80
24 hours	: 81

10. MECHANICAL PROPERTIES

Tensile Strength	: 35–40 N/mm ²
Bending Strength	: >80 N/mm ²

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