SANBOND

TECHNICAL DATA SHEET

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STAIN FREE EPOXY

Three-component, water-cleanable solid epoxy grout for high-strength, impact- and chemical-resistant joint filling of tiles and stone.

Strong & durable · Anti-bacterial · Temperature resistant



1 : 2 : 7	50.45 MPa	35–45 min	72 h
Mix ratio (B : A : C)	Compressive strength	Pot life @ 25 °C	To heavy traffic

01 PRODUCT DESCRIPTION

Sanbond Stain Free Epoxy is a water-cleanable solid epoxy mortar and non-sagging system for joint filling of tiles and stone, where high strength, impact resistance and chemical resistance are required. An industrial grade is also available as **Sanbond Industrial Epoxy**, offering greater hardness and higher chemical resistance.

02 USES

- As an antifungal and antibacterial grout filling.
- Suitable for heavy traffic areas.
- As mortar and grout filling where extremely high strength is required.
- Decorative use in swimming pools, malls, bungalows, factories, etc.

03 SUITABLE SURFACES

- Ceramic tiles
- Vitrified tiles
- Stone

04 SURFACE PREPARATION

Wash the entire area with water, make it dust free and clean the joints with an air blower to remove debris. Before applying grout, make the surface and joints slightly damp with a sponge. Do not clean tiles with acid cleaners; if acid cleaners were used, wash the area with plenty of water before commencing grouting.

Substrate temperature: 16 °C – 32 °C (60 °F – 90 °F)

05 MIXING INSTRUCTIONS

Empty the entire contents of the Part A and Part B containers into a clean pail and mix with a slow-speed drill mixer until completely and homogeneously blended. Slowly add Part C (filler powder) to a uniform consistency, then add the remaining filler and mix to a stiff, workable mix. Pour the entire mix onto the working area, using a plastic sheet as a drop cloth. Work the grout into the tile joints using standard epoxy grouting techniques, or fill joints with a putty blade. Ensure all joints are packed full and remove as much excess material as possible before initial cleaning. Do not allow excess grout to remain on the face of the tiles.

06 APPLICATION PROCESS

01 Mix Part A, Part B and Part C as per the mix ratio.

02 Mix Part A and Part B at the ratio of **2 : 1**.

03 After mixing Part A and Part B, add Part C and mix to a proper consistency (a slow-speed mixer may be used).

04 Fill the mixed mass into the grout joint with a rubber float.

05 Ensure that the joint is completely filled.

06 Remove excess grout from the tile with a float.

07 Ensure that the filled joint material does not come out.

08 Leave the area for **25 to 40 min**.

09 Add plenty of water on the joint.

10 Clean the joint with a floor cleaning pad in a clockwise direction.

11 Open to heavy traffic after **72 hours**.

07 TECHNICAL DATA

Part	Base	Aspect	Colour
A	Epoxy resin	Liquid	Hazy liquid
B	Epoxy hardener	Liquid	Pale yellow
C	Filler	Filler	Pigmented filler

Property	Value
Mixing ratio	1 : 2 : 7 (hardener : resin : powder)
pH	N/A
Gel / pot time @ 25 °C	35 to 45 min
Tack free time @ 25 °C	6 to 7 hours
Working time	1 hour
UV stability	Yes
Heavy traffic	72 hours
Shrinkage	< 0.3 % after 7 days

08 APPLICATION CONDITIONS

- Residual moisture content of the stone substrate should not exceed 5%.
- No rising moisture or potential osmosis problems.
- Substrate temperature at least 3 °C above dew point, but not above 50 °C.
- Recommended ambient temperature for application: 10 °C – 40 °C.
- Relative air humidity (RH) not to exceed 80%.

09 MECHANICAL PROPERTIES

Property	Value
Bond strength	7.55 MPa
Compressive strength	50.45 MPa
Tensile strength	15.25 MPa

10 PACKAGING

Pack	Part A	Part B	Part C
1 kg	0.200 kg	0.100 kg	0.700 kg
5 kg	1.000 kg	0.500 kg	3.500 kg

11 STORAGE & SHELF LIFE

Keep in a cool and well ventilated area. For best results, use within **7 days** of opening to avoid possible spoilage. For product expiry information, please refer to the product packing.

12 ANNOTATIONS

- Check the colour of the grout to confirm it meets the client's desired colour.
- Provide proper movement joints and peripheral joints to accommodate movement in tile / stone, and fill them with a flexible grout or sealant.
- Non-provision of movement joints will lead to cracks.
- Many tiles and stones have high absorption, so there may be a chance of colour marks.
- Always use a good quality brush, sponge, scrubber or white cotton cloth during application to avoid damaging the surface through decolourisation.
- When using tools such as spray pumps, low hand-pressure pumps, water jets, mixers or grinding machines, clean their inner and outer surfaces to avoid any damage to the surface and the material.

13 HEALTH & SAFETY

PRECAUTIONS

- Wear protective clothing, gloves and eye goggles during application. Avoid contact with eyes and skin.
- Keep out of reach of children.
- Not for internal consumption.
- Apply between 5 °C and 35 °C.
- Use only in well ventilated areas.
- Wash hands thoroughly after applying.

ACCIDENT

Use water spray.

SPILLAGE

Take up mechanically or with absorbent material.

FIRST AID

- If swallowed, contact a physician.
- On skin contact, wash skin with water and remove contaminated clothing.
- On eye contact, hold the eye open, flood with water for at least 10 min and contact a physician.

14 NOTES

The information above is believed to be accurate and represents the best information currently available to STC Marketing. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall STC Marketing be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages. Users must always refer to the most recent issue of the local product data sheet. Always test on a small area first and allow a 24-hour cure time to determine ease of application and the desired time.

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