SANTEC
BUILD WITH CARE

PACK 1 kg | PACK 5 kg

TECHNICAL DATA SHEET

Santec

Stain Free Epoxy

Water-cleanable, non-sagging three-component epoxy grout for high-strength joint filling of tiles and stone.



Strong & Durable | Anti-Bacterial | Temp. Resistant

50.45 MPa	15.25 MPa	7.55 MPa	72 hrs
COMPRESSIVE STRENGTH	TENSILE STRENGTH	BOND STRENGTH	TO HEAVY TRAFFIC

01 Product Description

Santec Stain Free Epoxy is a water-cleanable, solid epoxy mortar and non-sagging system for joint filling of tiles and stone, where joints demand high strength, impact resistance and chemical resistance. It is supplied as three parts: Part A resin, Part B hardener and Part C filler.

> **Need more?** Santec Industrial Epoxy is also available, offering greater hardness and higher chemical resistance.

02 Uses

- Antifungal and antibacterial grout filling
- Suitable for heavy-traffic areas
- Mortar and grout filling where extremely high strength is required
- Decorative joints in swimming pools, malls, bungalows, factories and more

03 Suitable Surfaces

- Ceramic tiles
- Vitrified tiles
- Stone

04 At a Glance

Mixing ratio	2 : 1 : 7 (A : B : C)
Pot life @ 25 °C	35 – 45 min
Working time	1 hour
Tack-free @ 25 °C	6 – 7 hours
UV stability	Yes

05 Surface Preparation

Wash the entire area with water and make it dust-free. Clean the joints with an air blower to remove debris. Before grouting, dampen the surface and joints slightly with a sponge.

Do not clean tiles with acid cleaners. If acid cleaners have been used, wash the area with plenty of water before grouting. Substrate temperature must be between 16 °C (60 °F) and 32 °C (90 °F).

06 Mixing & Application

Mixing ratio by weight

Always mix the full contents of both containers

PART A · RESIN	PART B · HARDENER	PART C · FILLER POWDER
2 parts	**1 part**	**7 parts**

1 — Combine A + B
Empty the entire contents of Part A and Part B into a clean pail.

2 — Mix
Blend with a slow-speed drill mixer until completely homogeneous.

3 — Add Part C
Add the Part C filler slowly, mixing to a uniform, stiff consistency.

4 — Lay out
Pour the entire mix onto the working area, using a plastic sheet as a drop cloth.

5 — Fill joints
Work into joints with a rubber float or putty blade; pack every joint full.

6 — Strip excess
Remove excess with the float. Do not leave grout on tile faces.

7 — Rest
Leave for 25 – 40 minutes, ensuring the filled joint does not pull out.

8 — Wet & clean
Apply plenty of water, then clean joints with a floor pad in a clockwise direction.

07 Application Conditions

10–40 °C	≤ 80 %	≤ 5 %	+3 °C	None
Recommended ambient temperature	Relative air humidity	Residual moisture of stone substrate	Substrate above dew point, max. 50 °C	Rising moisture or osmosis problems

08 Technical Data

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

PROPERTY	VALUE
Mixing ratio	**2 : 1 : 7 (A : B : C)**
Gel / pot time @ 25 °C	35 – 45 min
Tack-free @ 25 °C	6 – 7 hours
Working time	1 hour
Heavy traffic	After 72 hours
pH	N/A

PROPERTY	VALUE
UV stability	Yes
Shrinkage	< 0.3 % after 7 days
Bond strength	**7.55 MPa**
Compressive strength	**50.45 MPa**
Tensile strength	**15.25 MPa**

09 Pack Sizes

1 kg

Part A · Resin	0.200 kg
Part B · Hardener	0.100 kg
Part C · Filler	0.700 kg

5 kg

Part A · Resin	1.000 kg
Part B · Hardener	0.500 kg
Part C · Filler	3.500 kg

10 Storage & Shelf Life

Keep in a cool, well-ventilated area. For best results, use within **7 days of opening** to avoid possible spoilage.

For product expiry information, refer to the product packing.

Before you start: always test on a small area first and allow a 24-hour cure to confirm ease of application and desired finish.

11 Annotations

- Check that the grout colour meets the client's desired colour before application.
- Provide proper movement and peripheral joints to accommodate tile/stone movement, filled with flexible grout or sealant.
- Omitting movement joints will lead to cracks.
- Many tiles and stones are highly absorbent, so colour marks may occur.
- Use a good-quality brush, sponge, scrubber or white cotton cloth to avoid surface damage from discolouration.
- Clean the inner and outer surfaces of tools (spray pumps, water jets, mixers, grinders) to avoid damaging the surface and material.

12 Precautions & First Aid

⚠ **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.

Handling

- Apply between 5 °C and 35 °C.
- Use only in well-ventilated areas.
- Wash hands thoroughly after applying.

Accident & Spillage

- Accident: use water spray.
- Spillage: take up mechanically or with absorbent material.

First Aid

- If swallowed, contact a physician.
- Skin: wash with water; remove contaminated clothing.
- Eyes: hold open, flood with water for at least 10 min and contact a physician.

13 Notes

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