

**DESCRIPTION**

TAL INDUSTRIAL EPOXY GROUTS are ideal for internal and external applications where chemical resistance and hygienic conditions are extremely important, such as abattoirs, breweries, dairies, food and beverage production and preparation areas, hospitals, mine change rooms, swimming pools, bacteria and mould growth areas, etc. TAL INDUSTRIAL EPOXY GROUTS are suitable for use in installations where tiling will be subjected to steam cleaning.

TAL INDUSTRIAL EPOXY GROUTS are simple to apply, with minimal wastage and excellent clean off properties.

2 forms of Industrial Epoxy Grout are available :

- **TAL INDUSTRIAL COARSE EPOXY GROUT** – a 3-component system suitable for **floor joints only, 8mm and wider**. Available in Natural (Beige, Brown and Grey colour sachets are also available)
- **TAL INDUSTRIAL FINE EPOXY GROUT** – a 3-component system ideal for **wall and floor joints, 3mm and wider**. Available in Beige, Grey and White

**Classification According to SANS 52004:2013 / EN12004:2007**

TAL INDUSTRIAL COARSE EPOXY GROUT and TAL INDUSTRIAL FINE EPOXY GROUT are classified as RG grouts (high performance reaction resin grout).

**VOC Content :**

Specification : Green Building Council of South Africa Office Design V1 IEQ-13 / Green Star Office Interiors V1.1 IEQ-11	
Architectural Sealants : Maximum Limit 250 grams per Litre as VOC content material	TAL INDUSTRIAL COARSE EPOXY GROUT : < 10g / ℓ as VOC content material TAL INDUSTRIAL FINE EPOXY GROUT : < 10g / ℓ as VOC content material

**TECHNICAL DATA – Chemical Resistance**

**TAL INDUSTRIAL EPOXY GROUTS, when fully cured, are resistant to the following:**

PRODUCTS	CHEMICAL	MAX CONCENTRATION
ACIDS	Citric Acid	10%
	Tartaric Acid	10%
	Oxalic Acid	10%
	Lactic Acid	5%
	Acetic Acid	3%
	Other Acid	3%
	Alkali	5%
ALKALIS	Hydroxides	10%

**TAL EPOXY GROUT shows poor resistance to :**

Acetone	Perchloroethylene
Benzene	Tetrahydrofuran
Carbon Tetrachloride	Toluene
Chloroform	Trichloroethane
Chromic Acid	Trichloroethylene
Methylene Chloride	Xylene
Oleic Acid	

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**PREPARATION**

**Never butt joint tiles.** Do not grout with neat cement. Grouting must not commence until the adhesive beneath the tiles has set sufficiently. (Refer to the adhesive instructions for curing times.) Unglazed tiles should be sealed with a suitable sealer before grouting to prevent staining. The tiles must be clean, dry and free from dust and dirt, and the joints must be raked out and cleaned before grouting.

**NOTE :** It is critical that all adhesive residues are removed from the grout joints and the joints properly cleaned prior to the grout application (preferably before the adhesive dries). Failure to do so will result in a superficial grout layer which may not provide the required protection.

**MIXING**

A mechanical mixer is highly recommended for good mixing and uniform dispersion of product. Incorrect or inadequate mixing will result in non-curing of the epoxy.

Never attempt to use part portions of the 3 components. It is essential not to mix more grout kits than can be used within 1 HOUR at 20°C.

- **TAL INDUSTRIAL COARSE EPOXY GROUT**  
3 components – 1. Resin 2. Hardener 3. Filler (powder). Additional – colour sachet, if required.
- **TAL INDUSTRIAL FINE EPOXY GROUT**  
3 components – 1. Resin 2. Hardener 3. Filler (powder).

Using a mechanical mixer, empty **ALL** the contents of the Resin and Hardener containers into the clean bucket supplied (**adding the Resin first, then the Hardener**).

If using INDUSTRIAL COARSE EPOXY GROUT, the colour sachet should be added at this stage.

Mix thoroughly for 1 minute. Add the Filler (powder) component very slowly whilst mixing and mix thoroughly at a low speed, scraping down the sides, until the mix 'wets out' and a uniform colour and consistency is achieved.

After mixing this product is useable for ± 1 hour at 20°C, after which time any unused mixture must be discarded.

**NB :**

- **It is essential not to mix more grout kits than can be used within 1 hour.**
- **In hot conditions the pot life and working time will be shorter.**
- **The grout will take longer to cure at temperatures below 10°C.**

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**APPLICATION**

Do not wet the joints before grouting.

**Working in temperatures between 10°C and 25°C** and in small areas at a time, apply TAL INDUSTRIAL EPOXY GROUT to the tile joints using a GROUT SQUEEGEE and rub the grout well into the joints, making sure the joints are properly filled.

**TAL INDUSTRIAL COARSE EPOXY GROUT must be properly compacted into the joints, and must be finished off with a steel pointing tool.**

Remove surplus grout from the tile surface immediately. Clean the face of the tiles using a cloth or sponge dampened with TAL EPOXY CLEANING FLUID, before the epoxy dries.

Care must be taken in the cleaning process to ensure grout is not removed from the joints.

See the section on CLEANING (below) as the correct cleaning procedures are vital to the success of the installation.

Smooth the surface of the grout with a steel pointing tool and finally polish off with a lightly dampened sponge or cloth.

**The installation should not be subjected to normal service conditions until the epoxy is fully cured (24 – 48 hours for *light* service conditions, and 7 DAYS for optimum chemical resistance).**

**Should the grout be exposed to water, cleaning agents, etc before full cure has taken place the integrity and performance of the product will be compromised.**

**NOTE**

- Exterior installations must be protected against inclement weather and too rapid drying by covering with plastic sheeting until the grout has hardened fully.
- A sample of the tiles to be used should be tested beforehand to ensure that no grout is absorbed through the glaze, or into the tile body, causing permanent staining of the tiles.
- Due care must be taken when applying the grout to ensure that the face of soft glazed tiles, highly polished tiles or glass tiles do not get scratched.

**CLEANING**

**NOTE : CLEANING OF EPOXY GROUT RESIDUES SHOULD BE DONE BEFORE THE EPOXY HAS CURED. CURED EPOXY IS IMPOSSIBLE TO REMOVE.**

Any epoxy residue on the tile face must be removed **before it hardens** using a cloth or sponge dampened with TAL EPOXY CLEANING FLUID, cleaning the cloth/sponge regularly in a bucket of clean, soapy water.

**Excessive water must be avoided as it will result in non-curing of the grout.** Care must be taken in the cleaning process to ensure grout is not removed from the joints.

TAL EPOXY CLEANING FLUID should be used to clean off uncured TAL INDUSTRIAL EPOXY GROUT residues from the surface of tiles during or immediately after the grouting operation.

TAL EPOXY CLEANING GEL can be used to clean off TAL INDUSTRIAL EPOXY GROUT residues which have inadvertently been left on the face of the tiles overnight.

Due care must be taken to apply the cleaner to the face of the tile only as it will affect the grout in the joints.

**NOTE :** Greater care may be required with some types of tiles, ie those with textured surfaces, unglazed and quarry tiles.

**TEMPERATURE RESISTANCE**

TAL INDUSTRIAL EPOXY GROUT will withstand service temperatures within the range of -30°C up to 50°C for prolonged periods, and up to 100°C for short periods. The product is suitable for use in installations where tiling will be subjected to steam cleaning.

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**COVERAGE**

Use the following formula to estimate the grout coverage :

$$\frac{(A + B) \times C \times D \times E}{(A \times B)}$$

(A x B)

A = Tile Length (mm)

B = Tile Width (mm)

C = Tile Thickness (mm)

D = Joint Width (mm)

E = SG of TAL Grout (1.8)

All measurements MUST be in mm, and this will give the grout coverage in kg/m<sup>2</sup>.

Always add 10% for wastage.

**PACKAGING**

TAL INDUSTRIAL COARSE EPOXY GROUT – 7.5kg buckets

TAL INDUSTRIAL FINE EPOXY GROUT – 5kg buckets

**STORAGE & SHELF LIFE**

When stored in dry internal conditions between 10°C and 30°C and out of direct sunlight the product has a shelf life of 6 months from date of manufacture. Never store directly on a concrete floor.

**WARNING**

**DO NOT INGEST. USE ONLY AS DIRECTED. THE USE OF RUBBER GLOVES IS RECOMMENDED WHEN WORKING WITH THIS PRODUCT. WORK IN A WELL VENTILATED AREA. DISPOSE OF THIS PRODUCT IN ACCORDANCE WITH LOCAL REGULATIONS. CONTACT TAL FOR FURTHER HEALTH AND SAFETY INFORMATION.**

As certain people are prone to dermatitis when using epoxy resins it is advisable to use rubber gloves. Any material coming into contact with the skin should be washed off promptly and thoroughly with soap and water. In the case of eye contact, wash immediately with copious amounts of water and seek medical attention.

**PRODUCT GUARANTEE**

TAL products are manufactured and tested in accordance with TAL procedures, which are maintained in line with Quality Control System Standard ISO 9001 : 2008. TAL products are guaranteed to be free from manufacturing defects and fit for design purposes.

This guarantee is subject to the performance of TAL products when used strictly in accordance with their materials and methods specifications for the particular project, and where good workmanship is followed. However, we have no influence over specific site conditions and therefore, if in doubt, the user must always carry out sufficient tests to satisfy himself/herself that the product is suitable for the intended purpose. In special cases, obtain professional advice.

TAL cannot be held responsible for the standard of workmanship on site, or any problems caused by unsound structures or foundations, cracking of the substrate, deflections of slabs or backgrounds, vibration, creep movement of the structure, etc, or any products which have been adulterated, contaminated or misused in any way. The aforementioned list is not exhaustive.

**NOTE :** we require timeous notification, in writing, of an alleged defect and the opportunity to assess and investigate the problem to our satisfaction prior to any remedial work whatsoever being carried out.

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**TAL TECHNICAL ADVICE CENTRE**

For a detailed Materials and Methods Specification contact the TAL Technical Advice Centre on 0860 000 TAL(825), or e-mail [taltech@norcrossa.com](mailto:taltech@norcrossa.com)

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