

TECHNICAL DATA SHEET

WALL & FLOOR GROUT



Revision Date
DECEMBER 2017

Cement-based Grout for Wall and Floor Applications

Description :

TAL Wall & Floor Grout is suitable for filling wall and floor tile joints between 2 - 8mm wide. Available in a variety of colours, they offer resistance to moisture ingress.

Classification According to SANS 52004:2013 / EN12004:2007

TAL Wall & Floor Grout is classified as a CG1 grout (normal cementitious (CG1) grout). When mixed with **TAL Bond** as a total water replacement, or when **TAL Bond Powder** is incorporated in the mix, **TAL Wall & Floor Grout** is classified as a CG2W grout (improved cementitious (CG2), reduced water absorption (W), grout).

Note : This product is designed for the above-mentioned application only. TAL will not be liable for misuse or adulteration of the product.

Technical Data

Type	Cement-based tile grout	
Setting Type	Standard setting	
Colour	Various	
Application Temp Range (Ambient)	10°C - 30°C	
Pot Life* (Working time after mixing)	60 minutes (30 minutes when mixed with TAL Bond/TAL Bond Powder)	
Open Time*	15 minutes	
Correction Time*	15 - 20 minutes	
Initial Set*	6 - 8 hours	
Final Set*	24 hours	
Packaging	20kg	
Mix Ratio	Water : 6ℓ / 20kg TAL Bond : 6ℓ / 20kg TAL Bond Powder : 1kg / 20kg	
When Mixed with :	Water	Bond / Bond Powder
Flexibility	Poor	Good
Temp Resistance	0°C - 60°C	-30°C - 100°C
Ageing	Good	Excellent
Resistance to Damp	Poor	Good

*At 23°C and 50% relative humidity.

The above data was obtained under laboratory conditions using freshly manufactured material. Actual results in the field will vary as a result of factors such as Ambient Temperatures, Site Conditions, etc.

VOC Content :

Specification : Green Building Council of South Africa
Office Design V1 IEQ-13
Green Star Office Interiors V1.1 IEQ-11

Architectural Sealant : Maximum Limit 250 grams per Litre as VOC content material	TAL Wall & Floor Grout : 1.12g / ℓ as VOC content material
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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 the joints must be raked out and cleaned before grouting.

Mixing

Mix Ratios : 20kg – 6 litres; 5kg – 1½ litres; 2kg – 600 millilitres.

Add the bag of **TAL Wall & Floor Grout** to the stipulated amount of clean, cool water whilst mixing, and mix well to a creamy, lump-free consistency. Let the mix stand for a few minutes before stirring again. A mechanical mixer is essential for good mixing and uniform dispersion of product.

For optimal performance use a full bag in one mix and ensure that the water temperature is between 20°C - 25°C. Use within 1 hour (pot life).

For all exterior/exposed and "wet" applications, high traffic areas, areas subjected to thermal stresses or temperature changes, or where some flexibility is required, replace the water in the mix with **TAL Bond**. **Alternatively, TAL Bond Powder** may be added to the grout mixing water, at a ratio of 1 x 1kg sachet per 20kg **TAL Wall & Floor Grout**, 500g (half a sachet) per 5kg and 250g (quarter sachet) per 2kg. (Note that the colour may become slightly darker with the addition of **TAL Bond** or **TAL Bond Powder**.)

Note :

- Never add more liquid to a mix which has been left standing for too long, as this will compromise the integrity of the grout.

Important Notice:

TAL believes the information on this sheet to be correct – but does not guarantee its accuracy or completeness. Conduct your own tests of this product to determine its suitability for intended use. User assumes all risks and liability during testing and use of this product. In special cases, obtain professional advice. The only obligation of TAL shall be to replace any of this product proved to be defective in material. TAL shall not be liable for any injury, loss or damage, direct or consequential, relating to the use or inability to use this product. Except as expressly provided above, all products sold and samples furnished without any warranty of merchantability or any other warranty, express or implied. TAL reserves the right to change the information on this datasheet. Please contact the TAL Technical Advice Centre on taltech@tal.co.za, or 0860 000 825 to ensure you have the latest version.

- Warm weather conditions and/or water temperatures (generally, temperatures above 30°C) may shorten the working time of the mixture.
- Low ambient temperatures and/or water temperatures (generally, temperatures below 15°C) will have detrimental effects on the curing and integrity of the grout, ie full cure may not be achieved.

Application

Apply the mix to the surface, 1m² at a time, and rub the grout well into the joints using a grout squeegee, making sure that the joints are properly filled.

Wipe off excess grout and smooth the surface of the grout with the squeegee.

Allow the grout to harden sufficiently (approximately 2 - 6 hours, depending on ambient conditions) to prevent accidental removal from the joints. Using a **damp (not wet)** sponge, clean off any grout remaining on the face of the tiles. Rinse the sponge frequently in clean water.

Allow the grout to dry for 24 hours and polish the tiles with a clean, dry cloth. Clean tools before the grout hardens.

Important :

- Exterior installations must be protected against inclement weather and too rapid drying by covering with plastic sheeting until the grout has hardened fully.
- Particular care must be taken to clean the grout off the tile face before it hardens completely. **This is especially important when an additive such as TAL Bond, or TAL Bond Powder, has been used.** Greater care may be required when cleaning tiles with a textured surface.
- 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.
- 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.

- It is important to use the stipulated amount of liquid in the TAL Grout mixture. When cleaning, a **damp, not wet**, sponge must be used. Over hydration (too much water) of the mix, or in cleaning, causes colour variations in the grout joints, and also affects the integrity of the grout, resulting in a friable product.

Drying Times :

Wait at least 24 hours before subjecting the newly applied grout to wet mopping or other cleaning procedures.

Cleaning / Maintenance :

Good cleaning regimes should be followed to maintain the grout colour and integrity.

Only commercial tile and grout cleaning products that are safe to use on coloured grout should be used.

Strong concentrations of acid-based compounds (ie acid-washing, or 'purging') must be avoided. Bleach and ammonia based products may have a fading effect on the colour of the grout.

Coverages

Use the following formula to estimate the grout coverage :

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

$$(A \times B)$$

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/m².

Always add 10% for wastage.

Packaging

TAL Wall & Floor Grouts are available in 20kg, 5kg and 2kg bags.

Storage & Shelf Life

When stored in original sealed packaging in dry internal conditions between 10°C and 30°C and out of direct sunlight the product has a shelf life of 12 months from date of manufacture. **Never store directly on a concrete floor.**

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Warning :

Do not ingest. Use only as directed. Wear protective gloves and goggles. Use a suitable dust mask when working with cementitious products. Work in a well-ventilated area. Dispose of this product in accordance with Local Regulations.

Contact TAL for further Health & Safety information.

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 and Environmental Management System ISO 14001:2004. 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.

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@tal.co.za.

Branches : Gauteng (011) 206-9700; Cape (021) 386-1810; Natal (031) 579-2263

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