

Quick-setting Hard-Wearing Water & Acid Resistant Cement-based Grout

Description :

TAL High Traffic Grout is a quick-setting grout designed to provide a durable, scratch and water-resistant finish in high traffic and heavy traffic commercial installations such as retail centres and stores, car showrooms, etc as well as exterior installations.

TAL High Traffic Grout also provides good resistance to mild organic acids in special locations such as dairies, abattoirs, citrus plants, and industrial/restaurant kitchens.

Available in White, Light Grey and Dove Grey, **TAL High Traffic Grout** is suitable for filling wall and floor joints between 3 - 12mm wide.

Note: Whilst **TAL High Traffic Grout** has excellent water-resistant properties, when used in submerged installations such as swimming or wading pools, water features, etc **TAL Bond** should be incorporated in the grout mix as a total water replacement for enhanced resistance.

- Excellent scratch (high traffic resistance)
- Excellent water resistance
- Excellent flexural strength
- Good resistance to mild acids
- Good resistance to staining
- Quick setting, faster return to service (12 hours)

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

Classification According to SANS 52004:2013 / EN12004:2007

TAL High Traffic Grout is classified as a CG2FAW grout (improved cementitious grout [CG2], fast setting [F], high abrasion resistance [A] and reduced water absorption [W]).

Technical Data

| | |
|--------------|-------------------------|
| Type | Cement-based tile grout |
| Setting Type | Quick setting |
| Colour | White and Dove Grey |
| Pack Size | 20kg |
| Mix Ratio | 4t - 5l / 20kg |

| | |
|---------------------------------------|--|
| Application Temp Range (Ambient) | 10°C - 30°C |
| Pot Life (working time after mixing)* | 4 hours (3.5 hours when mixed with TAL Bond/) |
| Initial Set* | 6 – 8 hours |
| Final Set* | 12 hours |
| Flexibility | Good |
| Resistance to Damp | Excellent |
| Temperature Resistance | -30°C - +100°C |

*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.

Resistance (when fully cured)

| Product | Performance (After a 7 day soak) |
|----------------------------|----------------------------------|
| Citric Acid 10% | Good |
| Coke pH5 | Excellent |
| Orange Juice pH5 | Excellent |
| Tomato Puree pH5 | Excellent |
| Vinegar pH5 | Excellent |
| Sodium Hydroxide 10% | Excellent |
| Concentrated Detergent | Excellent |
| Sugar Saturated | Excellent |
| Toluene | Excellent |
| Petrol | Excellent |
| Mild Synthetic Lactic Acid | Excellent |
| Lactic Acid (Blood) | Excellent |
| Sodium Chloride | Excellent |

Preparation

Never butt joint tiles. Grouting must not commence until the adhesive beneath the tiles has set sufficiently. (Refer to the adhesive instructions for applicable setting 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 contaminants, and the joints must be raked out and cleaned before grouting to remove all traces of dust, debris and contaminants.

Tile spacers should be removed.

NB : Ensure clean equipment and tools are used for mixing and application to prevent contamination and discolouration of grout.

Consistent mixing and application techniques are required to ensure a uniform finish.

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.

Mixing

For best results, use a full bag of grout in one mix. The raw materials, including pigments, can separate in the bag and part-mixing could result in variations in colour.

Dry-blending is strongly recommended before use.

Add 20kg **TAL High Traffic Grout** to between 4 and 5 litres of clean, cool water (4 litres for wall applications, and no more than 5 litres for floor applications) 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 4 – 6 hours (pot life).

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.
- 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 and the grout is thoroughly compacted into the joints.

Grout joints should ideally be flush with the tile face, dirt and debris can become entrapped in recessed joints.

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

Allow the grout to harden sufficiently (approximately 1 - 2 hours, depending on site and 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 12 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 using modified grout. 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. The use of soft applicators and equipment is essential.
- 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 12 hours (depending on site and ambient conditions) before subjecting the newly applied grout to wet mopping.

Allow minimum of 72 hours before exposure to commercial floor cleaning procedures.

Newly applied or cleaned installations must not be trafficked until the grout has set sufficiently (minimum 24 hours for heavy traffic) to ensure that the grout is not dislodged or damaged. Dirt may become embedded in uncured grout.

Cleaning / Maintenance :

During Application :

Dry powder spillages – sweep off or vacuum powder spillages, ensuring reduced exposure to moisture which potentially activates **TAL High Traffic Grout**.

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Mixed product - wipe the area with a **DAMP (not wet)** sponge before the grout has dried. Solvents, such as **TAL Epoxy Cleaning Fluid** or **Gel** may be required to removed dried grout residues on the face of tiles or tools.

Clean hands and tools with warm soapy water before the product dries.

After Application :

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.

Coverage :

Use the following formula to estimate the grout coverage :

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

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 High Traffic Grout is available in 20kg 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.**

Warning :

Do not ingest. Use only as directed. Keep out of reach of children. 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 9001:2015, OSHAS 45001:2018 and Environmental Management System ISO 14001:2018. 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 instructions on the product data sheet, and where the prescribed standard of 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 shall not be liable for the standard of workmanship on site, or for any defects or damage due to external causes or factors beyond the control of TAL including, without limitation, unsound structures or foundations, building movement (cracking, creep, deflection, vibration, etc), design defects, earth tremor or other seismic disturbances, land slip, fire, flood or other immersion, damage to the tile installations by following trades or abusive trafficking, or any products which have been adulterated, contaminated or misused in any way. Debonding due to cohesive failure within the substrate is not classified as product failure. 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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