



WALL TILE GROUT

Issue date – WTG-1/0405

**FOR INTERNAL AND
EXTERNAL APPLICATION**

**SUITABLE FOR JOINTS
UP TO 3MM WIDE**

**SUPER-SMOOTH
EASY TO APPLY**

DESCRIPTION:

WALL TILE GROUT is a cement-based, polymer modified joint filling compound, available in **WHITE** and **IVORY** for tile joints up to 3mm wide around all types of ceramic floor and wall tiles. WALL TILE GROUT is formulated to provide a non-slump, readily compactable grouting slurry, which can be easily applied across all types of ceramic tiled surfaces using a sponge or rubber squeegee. WALL TILE GROUT will dry to a hard, durable and water-resistant finish, suitable for internal and external locations. In fully immersed locations, the inclusion of PALAFLEX in the grout mix can enhance water repellent properties.

SURFACE PREPARATION:

Check that all tiles are securely fixed and that the adhesive has thoroughly dried before applying any load or pressure to the tiled surface. Ensure all joints are raked clear of any excess adhesive residues to allow an even and consistent depth of grout to be applied in all areas. Tiling applied to wood panelled surfaces, where slight movement is likely should be grouted with WALL TILE GROUT mixed with PALAFLEX diluted 1 : 1 with water to improve flexural adhesion strength. Note: Certain types of tile may be porous and hence prone to surface discolouration. Natural stone and porous, un-glazed tiles are particularly prone to absorption of grout fines. Apply mixed grout to a spare tile to determine whether staining is likely and consult the tile manufacturer prior as to whether they recommend a suitable sealing compound to protect the surface

MIX PREPARATION:

WALL TILE GROUT should be added to water in a clean container whilst mechanically stirring and mixing thoroughly to give a smooth, consistent and easily worked mortar. The recommended mixing proportions by volume are approximately 1 part water to 2 parts powder (4.2 litres per 10kg of powder). Do not add more water than is necessary as this may prolong drying and significantly reduce the compressive strength of the cured grout. Part-used grout should never be “freshened up” with later water additions, but should always be discarded once it appears to lose workability. In ideal conditions (20°C), WALL TILE GROUT will remain workable for 2 to 3 hours and then reach final set after about 24 hours. When grouting over a large area using several bags of grout, ensure all mixes are from the same batch and that a consistent and identical water addition is used for each mix.

APPLICATION METHOD:

Use a rubber squeegee, or smooth sponge to work the grout thoroughly and consistently into the tile joints, removing the excess as work proceeds across the tiled area. Fine grout residues can be washed away with a lightly damp cloth or sponge up to 2 hours after application, with a final clean finish being achieved using a dry cloth to polish the surface when the joints have dried and hardened. WALL TILE GROUT mixed with PALAFLEX diluted as 1 to 1 with water will be more difficult to remove from tiled surfaces when dry therefore extra care is necessary to ensure residues are completely removed as the application proceeds.

COVERAGE:

This will depend on the tile size, joint width and depth and the Grout Coverage Factor, which for WALL TILE GROUT is 1.5. The approximate grout requirements for square or rectangular tiles can be estimated as follows:

$$\frac{(\text{Tile length} + \text{Tile width}) \times \text{Joint width} \times \text{Joint depth} \times 1.5}{(\text{Tile length} \times \text{Tile width})}$$

Examples are as following table:

Joint Width	Tile Size (mm)	Floor grout (kg)	Joint Width	Tile Size (mm)	Floor grout (kg)
2mm	150 x 200 x 6	0.21kg/m ²	3mm	100 x 100 x 4	0.33kg/m ²
2mm	200 x 250 x 10	0.27kg/m ²	2mm	150 x 150 x 4	0.17kg/m ²
3mm	300 x 200 x 10	0.40kg/m ²	3mm	250 x 200 x 6	0.25kg/m ²

TECHNICAL SUMMARY:

MIX RATIO:	POT LIFE:	INITIAL SET:	FINAL SET:	WET BULK DENSITY:
2 powder to 1 water (vol:vol)	1.5 - 2 hours	3 - 4 hours	8 - 10 hours	1.85 kg / litre

STORAGE & PACKAGING:

WALL TILE GROUT is supplied in 0.5kg; 1.25kg; 3 kg and 10kg moisture resistant bags and has a storage life of not less than 12 months if stored in dry, un-opened conditions. WALL TILE GROUT contains Portland cement and is therefore classified as irritating to eyes and skin. Consult the WALL TILE GROUT material safety data sheet for advice on handling and safety procedures. Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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PRODUCT IDENTIFICATION:			
WALL TILE GROUT IVORY & WHITE			
COMPOSITION: A Portland Cement (CAS 65997-15-1) based blend of lime, calcium silicates, calcium aluminates, graded silica sands; spray dried copolymers; organic additives and super - plasticisers		HAZARDS CLASSIFICATION: IRRITANT RISK OF SERIOUS DAMAGE TO EYES Contact with wet paste may cause dermatitis, irritation or burns Wear suitable gloves, clothing and eye/face protection. Avoid contact with skin and eyes. Avoid breathing dust. Keep out of the reach of children On contact with skin or eyes rinse immediately with plenty of water and seek immediate medical assistance after eye contact.	
FIRST AID MEASURES:			
INHALATION: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If nose or airways become inflamed or breathing difficulties occur, seek medical attention.	SKIN CONTACT: Wash off skin immediately with warm soapy water. Remove contaminated clothing and launder regularly. Where irritation to skin is apparent seek prompt medical attention.	INGESTION: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Seek medical attention if mouth is inflamed	EYE CONTACT: An instant response is essential. Irrigate thoroughly for 15 minutes with clean running water or eye wash bottle. Seek medical attention if eye irritation becomes inflamed.
FIRE FIGHTING MEASURES: NON FLAMMABLE Recommended extinguishers – Dry powder; Foam, CO2 – sacks may support combustion product will not. Hazardous decomposition when subject to combustion – N/A			
ACCIDENTAL RELEASE MEASURES: Recover spillages in a dry state wherever possible. Do not allow wet residues to harden. Confine all residues in a clearly marked sealed containers for disposal in accordance with Local Authority regulations for cement-based building products.			
HANDLING & STORAGE: Handling: Lifting operations must be no more than 1 x 25kg sack at a time by a competent operator wearing gloves. If stored correctly and used within 12 months of the date shown on this bag, the activity of the reducing agent will be maintained and this product will contain, when mixed, no more than 0.0002 % (2 ppm) soluble chromium (VI) of the total dry weight of the cement. Use of this product after the end of the declared storage period may increase the risk of an allergic reaction. [Risks associated with Chromium VI do not apply to the white version of this product].			
EXPOSURE CONTROL / PERSONAL PROTECTION: OEL 8hr TWA = 10mg/M3 total inhalable dust - 4mg/M3 respirable dust.			
Respiratory: Good ventilation is always recommended along with a BS approved dust mask	Hand: Wear 17" long elbow length heavy duty natural rubber gloves or gauntlets approved to EN 374 & EN 420 with a BTT rating of > 8 hrs for strong alkalis	Eye: Dust proof BS 2092 Goggles or chemical grade visors are also advised wherever there is a risk of dust or paste entering the eyes.	Skin: PVC overalls should be worn and laundered immediately after use. Do not work in powder or paste contaminated overalls

SAFETY DATA SHEET No. 051 – issue date 16-04-05

PRODUCT: WALL TILE GROUT

PHYSICO-CHEMICAL PROPERTIES:		
Appearance – Fine light coloured powder Boiling point range – n/a Solubility – water dispersible Auto ignition temp – n/a Specific gravity - 1.35 dry - 2.25 wet Miscibility – water only Evaporation rate - N/A	Odour – N/A Vapour pressure – N/A Flash point - N/A Explosive properties - N/A Viscosity – > 50,000 Mpa.s when mixed. PH - 11.0 - 12.5 Oxidising properties - N/A	
STABILITY & REACTIVITY: Conditions to avoid - n/a Materials to avoid – Strong acids Hazardous decomposition products - n/a		
TOXICOLOGICAL INFORMATION: Routes of exposure – Inhalation, skin contact, eye contact and ingestion. Key Health effect – Irritates skin and high alkalinity may damage internal mucous membranes if ingested.		
Acute toxicity: severe eye irritant Corrosivity: Damages skin	Sensitisation: Contact & allergic dermatitis Mutagenicity: n/a	Carcinogenicity: n/a Reproductive toxicity: n/a
ECOLOGICAL INFORMATION: Bio-accumulative potential – not expected to bio-accumulate. Ecotoxicity: strongly alkali – will adversely affect low volume watercourses Environmental Persistence – Not likely to remain strongly alkali in contact with water after hydration is complete.		
DISPOSAL CONSIDERATIONS: Dried powder, unused product and freshly contaminated application materials must be considered potentially irritant and disposed of in sealed bags in accordance with local authority regulation for building waste.		
TRANSPORT INFORMATION: Not classified for transport purposes		
REGULATORY INFORMATION: CHIP Hazard symbols: Xi - IRRITANT - R41 - RISK OF SERIOUS DAMAGE TO EYES Safety phrases: S2 – S24/25 – S36/37/39 - S64 Other regulatory controls: Health & Safety @ Work Act 1974; Control of Substances Hazardous to Health Regulations 1994. Environmental Protection Act.		 IRRITANT
FURTHER INFORMATION: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.		