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PETROKEM EPOXY TILE GROUT TG100

Epoxy Tile Grout For Horizontal & Vertical Surfaces

Petrokem Epoxy Tile Grout TG100 is a high quality two component epoxy system specially developed to be used for Horizontal and vertical surfaces. The Product is specially designed to be used for antibacterial conditions where a high caliber of hygienic cleanliness is the prime requirement. The product can be used to fill tile grooves (as a tile grout) and is recommended to grout granite, marble, ceramic, porcelain, terrazzo, mosaic, natural stone tiles or other similar tiles. The product should be used as a two component application by mixing the resin and hardener components. An adequate amount of Filler D[®] could be added to the mixture to obtain the required viscosity or thickness if required. The dried product is a chemical resistant, waterproof, hard, Ceramic like product, suitable for interior and exterior applications and is recommended to be used in grouting of operating theaters, Kitchens, swimming pools, shower areas, ponds and other water retaining structures. The product can be used for drinking water tanks. **Leaking water retaining structures can be waterproofed and repaired using the product.**

 Properties			
	Resin	Hardener	Filler D [®]
Appearance	Viscous Paste	Viscous Paste	Powder (Filler D [®])
Colour	Colour Range	Pale Yellow	White
Mixing Ratio	1 part of resin component to 1 part of hardener component by volume		
Composition	Epoxy Rein based	Amine Based	Hard Crystals
Density	-		
Viscosity (Ford Cup No4)	Paste	Paste	Powder
Solid Content	100%	100%	100%
Pot Life	Approx. 20 - 30 mins at 30°C		



Curing Time	<p style="color: red;">70% - 80%</p> <p>strength in 24 hrs. at 30°C</p> <p style="color: red;">100% (full)</p> <p>strength in 72 hrs. at 30°C</p>
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 **General Characteristics**


Petrokem Epoxy Tile Grout TG100	<ul style="list-style-type: none"> • Specially developed to obtain an antibacterial surface where a high caliber of hygienic cleanliness is a requirement. • Viscosity could be changed by adding filler D to the resin and hardener mixture (by changing binder to filler ratio) • Provides a hard wearing, ceramic like surface with high mechanical strength and chemical resistance. • Provides a rigid system and therefore not suitable to be used in expansion joints. • Cures at room temperature. • Can be used in a variety of surfaces. • High impact, flexural, compressive and tensile strength.
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 **Directions**

The successful performance of the product depends upon the conditions of application. Careful planning of the repair work is essential in epoxy applications.

Important Factors for a successful Application	<ul style="list-style-type: none"> A. Proper mixing ratios of Resin & Hardener B. Mixing times of Resin & Hardener. (5 mins of thorough mixing is recommended) C. Amount Of Filler D Used D. Conditions of the substrate and its preparation (Tile Groove should be clean, mechanically sound and free from all foreign matter) E. Method of Application
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Surface Preparation	STEP 1	<ul style="list-style-type: none"> • Existing tile grout (if present) should be removed using a suitable grinder. • The tile groove should be cleaned by using suitable equipment to remove loose material, moss, old paint and all other foreign matter
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Method of application	Mixing Ratio of Petrokem Epoxy Tile Grout TG100		
	Petrokem Epoxy Tile Grout TG100 Resin	Petrokem Epoxy Tile Grout TG100 Hardener	Filler D [®]
	1 Part by Volume	1 Part by Volume	Suitable Amount (if necessary)
	<p>STEP 2</p> <p>Mix thoroughly 1 volume of Petrokem Epoxy Tile Grout TG100 Resin and 1 volume of Petrokem Epoxy Tile Grout TG100 Hardener in a suitable clean container. Five minutes of thorough mixing is recommended. Then gradually add required quantity of Filler D[®] (if Required) and mix thoroughly to obtain a paste of smooth consistency. Mixing should be slow to avoid air entraining. The mixed material is now ready to use and the pot life is approximately 20 - 30 minutes.</p> <p>STEP 3</p> <p>Apply the mixture using a suitable instrument such as rubber or plastic spatula for the application. Remove excess grout from the tile surface with Petrokem Grout Cleaner or water. Use a sharp blade or knife to cut uneven tile grout if needed.</p>		
 Other Information			
Cleaner	Wipe all used equipment with a wet cloth. Use Petrokem Epoxy Thinner if required.		
Packaging	Available in 1 Kg pack (Resin 588 gms / Hardener 412 gms) - 2 Kg pack (Resin 1.176 Kgs / Hardener 824 gms) - 10 Kg pack (Resin 5.880 Kgs / Hardener 4.120 Kgs) & Filler D [®] is available in 250gm, 1kg, 7kg packs		
Shelf Life	Minimum of 12 months from the date of manufacture when stored in a cool, dry environment.		



Health & Safety Precautions

Petrokem Epoxy Tile Grout TG100 Resin and hardener are chemicals and care should be taken when handling. For details please read Petrokem epoxy safety and handling information sheet. A copy of this manual will be supplied on request.

Ensure good ventilation.

Avoid eye / skin contact

Eye contact : rinse with running water for 10 minutes and seek medical advice.

Skin contact : wash with soap and water.

Keep container closed and out of reach of children.

Refer material safety data sheet.



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