

DONCRETE MIX - TR

Products Details BS 5385: Part 4: 1992

DESCRIPTION:

Hygienic, hard-wearing, impervious, epoxies resin-based ceramic tile grout with a high degree of resistance to chemical attack, abrasion and impact.

The cured grout does not transfer taints to foodstuffs, does not permit the entry of bacteria or dirt and is easily maintained in a sterile condition.

It is also suitable as a high performance epoxy adhesive for fixing ceramic tiles.

COLOURS:

DONCRETE MIX - TR is available in white, ivory, cream, yellow, mushroom, pink, magenta, light green, dark green, light blue, deep blue, copper brown, dark brown, terracotta, burgundy, grey, steel grey, dark grey, black.

STANDARDS:

DONCRETE MIX - TR meets requirements of British Standard BS 5980: 1980 for resistance to mould growth. It also conforms to , section 9, for use in sterile conditions. The product additionally meets the requirements of "The Materials and Articles in Contact with Food Regulations 1987". The Food Safety (General Food Hygiene) Regulations 1970 and the 1993 EC Directive on the Hygiene of food stuffs.

Manufactured under an approved quality assurance system and in accordance with the requirements of the environmental management systems and operational scope of ISO-14001.

APPLICATION & PERFORMANCE:

Use & service Condition

Walls	Floors	Worktops	Interior	Exterior	Dry	Wet	Showers
Hydrotherapy	Swimming	Hygienic/	Chemical	HeavilyC			
areas	resistance	Trafficked Floors	(1)	Pools (2)	Pools (2)	Sterile	

APPLICATION AREA

Abbatoris	Breweries	Chemical	Dairies/Food/Drink	Changing Rooms	Hospitals
Industrial Plant	Kitchens	Shooping	Sports		
Rooms	Bakeries	Plants	Processing Plants	(Spas, Jacuzzis)	Medical /Dental/
Veterinary Surgeries	Commercial Malls/	Lesiure			
	& Domestic	Supermarket	Centres		

TECHNICAL DATA

DONCRETE MIX - TR

Tesnile Adhesion

Maximum Specific Gravity	Working Dry @ 27°C	Setting Vitrified @ 27°C	Temperature joint time	Water Time	Packaging Resistance	Shelf Life Absorption
			Wet >4.5kN	>3.6kN		
20mm BS 5980 min	60 minutes (0.95)	48 hours (0.56)	Prolonged -30°C-70°C	Nil (2 x 5Kg Units)	5kg pack (4)	12 Months 1.75
	(5)	Intermittent	(3)			
		Up to 100°C				

1. Do not use shower for at least 2 weeks following completion of grouting BS 5385: Part 4: 1992, clauses 6.3 (f) and 6.4 (h).
2. Do not fill pool for at least 3 weeks following completion of grouting BS 5385 Part 4: 1992, clause 7.2.10.
3. Determined by the Campden & Chorleywood Food & Drink Research Association, UK.
4. When stored in normal, dry forts free conditions.
5. Exceeds the requirements of BS 5980: 1980 as a type 5 reaction resin adhesive with class AA water resistance.

CHEMICALS RESISTANCE:

Chemical Don Ready	Don Ready	Chemical	Don Ready	Chemical
Mix-TR	Mix-TR	Mix-TR	Mix-TR	
Acetic Acid (5%) *	**	Acetic Acid (10%)	*	Acetone
Acetyl Bromide (5%)***	*	Aluminum Fluoride	***	Ammonium Bromide
Baking Soda ***	***	Barium Hydroxide	***	Beer
Benzene ***	*	Boric Acid	***	n-Butanol
Butyl Acetate ***	*	Calcium Chloride	***	Calcium Hydroxide
Carbon Disulphide ***	*	Carbon tetrachloride	*	Carbonates
Carbonic Acid ***	***	Castor Oil	***	Chlorides
Chlorinated Paraffin *	***	Chloroform	*	Chromic Acid
Citric Acid ***	***	Coconut Oil	***	Cotton See Oil
Diesel Oil ***	***	Dilute Detergents	***	Ethanol

Ethyl Alcohol ***	*	Ethylene Glycol	***	Fats
Ferric Chloride ***	***	Fish Oil	***	Fluorides (except HF)
Formic Acid ***	*	Gasoline	***	Ground Nut Oil
Heptanes **	***	Household Ammonia	**	Hydrobromic Acid
Hydrochloric Acid (dil) **	**	Kerosene	***	Lactic Acid (3%)
Lime Juice Linseed Oil **	*	Lubricating Oils	***	Methanol
Milk *	***	Nitrates	***	Nitric Acid (10%)
Olive Oil ***	***	Oleic Acid	***	Palm Kernel Oil
Palm Oil ***	***	Paraffin Wax	***	Phenol *
Phosphoric Acid (10%) ***	**	Pine Oil	***	Polypropylene Glycol
Potassium Hydroxide ***	***	Proprietary Sterilizing Agents	***	Silicates
Sodium Carbonate **	***	Sodium Chloride	***	Sodium Hydroxide
Sodium Hypochlorite Soln. (15% available chlorine)	***	Soya Bean Oil	***	Sugars ***
Sulphates ***	***	Sulphuric Acid (45%)	*	Sunflower Seed Oil
Tannic Acid	***	Tetrahydronaphthalene	***	1,1,1-
Dichloromethane	***			
Vegetable Oils	***	Water	***	White Spirit ***

Note: * Splash contact only. ** Contact for max. 24 hours before washing off. *** Prolonged contact.

BACKGROUND PREPARATION:

Fixing the tiles:

It is essential that the tiles used are appropriate for the service conditions and are fixed in the correct manner.

Application procedure

Before commencing grouting the adhesive bed must be set. It is essential that the tiles used are appropriate for the service conditions and are fixed in a solid bed of adhesive i.e. ensuring that, as far as possible, no voids are left behind/beneath the tiles. Refer to the relevant product data sheet for setting/drying times.

Protect open joints from contamination and ensure that they are clean, dry and free loose debris prior to grouting.

Do not use in damp conditions.

Movement Joints

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These should be provided in accordance with BS 5385: part 1-5 and may be filled with the appropriate flexible sealant. Intermediate floor joints should be reinforced with brass or stainless steel. Use stainless steel where hygiene is essential.

Don not use in damp conditions.

Site work Instructions:

Mixing

Application area		By volume
Wall @ 27°C (1)	Resin	2
	Hardener	1
	Filler	10
Floor @ 27°C	Resin	2
	Hardener	1
	Filler	6(*)

- Filler content may be adjusted for smooth or rough surface finish and temperature during application. Moreover, generally more filler will be required for walls than floors.

EPOXY GROUT APPLICATION:

Whilst the risk of tainting food is very low, it is still important to physically segregate adjacent food preparation areas which are to be operating during the grouting process. Ensure adequate ventilation in working areas.

- A. Using a hard rubber grout float, compact the grout into the joint ensuring that they are completely filled. Work in small areas and remove as much excess from the tile surface as possible. Strike off excess materials diagonally to the grout lines.
- B. Plug open-ended joints with the stiffer mix to prevent any slumping of the grout joints from occurring.
- C. Within 30 minutes of application, clean off surplus grout. Use a circular motion and keep the pad and gripper flat relative to the tile surface to achieve a flush joint. Warm water, although not essential will greatly ease the emulsification process. Do not allow water to flow/run into ungrouped joints.
- D. Clean off the emulsified epoxy/water residue with a fine sponge, taking care not to drag grout from the joints. Clean diagonally to the grout lines.
- E. Any light haze remaining on the tile surface can be cleaned off the next day using.

NOTE:

Care should be taken to avoid staining tiles when grouting. This is especially applicable when grouting unglazed floor tiles, quarry tiles, and tiles with a matt glaze or textured surface. Check the potential risk of staining by applying the grout to a few tiles in a small trial area. If discoloration occurs apply Protective Sealer and repeat the trial.

Protection (Food Processing Preparation/Storage areas): Tiles/mosaics to be kept dry and not brought into service until the epoxy grout has cured and is hard. Contact between food and tiling should be avoided for at least 7 days.

Not recommend for grouting tiles with metal decor or luster.

1. Shake the bottle of HARDENER and stir the RESIN prior to mixing.

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2. Add all the HARDENER to all the RESIN in a suitable, clean container and thoroughly mix together. If an electric drill mixer is used, blend on a slow speed (less than 300rpm).
3. Slowly add the required quantity of filler, mixing thoroughly until all the power is dispersed and a uniform colour is achieved. Avoid entraining air by mixing at too high a speed or by over-mixing.
4. A stiffer consistency (more filer) will be required to “stop” : open-ended joints or to grout skirting tiles. Refer to table.

COVERAGE:

Use formula (Theoretical).

$$\frac{(\text{Tile length} + \text{Tile breadth}) \times \text{Tile thickness} \times \text{Joint width} \times \text{Specific gravity}}{(\text{Tile length} + \text{Joint width}) \times (\text{Tile breadth} \times \text{Joint width})}$$

PACKING:

ONCRETE MIX - TR

is available in 5 kg & 1 kg kit.

	5 kg kit	1 kg kit	
Filter	3.5 kg	0.7 kg	
Resin	1.0 kg	0.2 kg	
Hardener	0.5 kg	0.1 kg	

SHELF LIFE:

At least 12 months when stored under normal dry conditions.

PRECAUTIONS:

Keep out of reach of Children. Ensure adequate ventilation and do not smoke when using this product. Not to be taken internally. If accidentally swallowed drink plenty of water and seek medical attention immediately. A few individuals are prone to dermatitis when using epoxies resin compositions but possible skin irritations can be avoided by wearing rubber gloves or using a suitable barrier cream.

TECHNICAL COLLABORATION WITH



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