

Ducon Tile Joint Filler (Epoxy Base)

TECHNICAL DATA SHEET (TDS)



Hygienic, hard wearing stain free water miscible epoxy resin tile grout

Uses

Provides a stain free, chemical, hard wearing, tile joint for areas like.

- Bathrooms, fountains and swimming pools.
- Factories, workshops and warehouses
- Pharma industry, hospitals and labs
- Commercial & residential buildings

Advantages

- Resistant to mild chemicals and acids
- Solvent free-can be used in confined areas
- Good resistance to abrasion and impact
- Non staining & easily cleaned
- Available in a range of attractive colors
- Resists bacterial growth
- Hygienic-suitable for use in Laboratories, Hospitals and Health centers
- Good to use in wet areas like showers, swimming pools, & bathrooms.

Note: Wet areas like showers, swimming pools, fountains etc. should not be used for at least 2 weeks following completion of grouting.

Description

Ducon Tile Putty is a water miscible epoxy resin tile joint filler based on new generation epoxy resin technology supplied in pre weighed packs, ready for onsite mixing and use.

Propertise

Typical Properties of mixed material.

Specific gravity	1.80 to 1.82 g/cc
Pot life@27°C	45 mins minimum
Foot traffic	24 hrs
Full cure	7 days
Compressive strength (ASTM C 579) (7 days)	>75 N/m ² (7 days)
Shrinkage % (ASTM D 955)	<0.1%
Tensile strength (BS 6319)	>10 N/m ² (7 days)
Water absorption (ASTM D 570)	<0.1%

Chemical resistance

Ducon Tile Putty is resistant to spillage of following chemicals commonly encountered in industrial applications. Spillage resistance was tested for 24 hours exposure as per ASTM D1308.

- Water, Sea water
- Alkali Solutions
- Aqueous solutions of salts
- Soft drinks
- Fruit juices
- Carbonated beverages
- Motor oils and lubricants
- Cosmetics and toiletries.
- Pharmaceutical products
- Dairy products
- Edible oils
- Medicated oils etc.

Instructions for use

Preparation

Joints to be grouted should be clean and free from any dust or debris.

Mixing

Transfer the base and hardener components into suitable container or secondary pail(bucket) and mix for 30 secs using margin trowel or slow speed drill mixer. The filler component is then added and blended using a slow speed drill and suitable mixing paddle until a uniform, homogeneous lump free mixture is obtained.

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.

Note: Filler content may be adjusted slightly to suit consistency for smooth and rough finish.

- Using a hard rubber grout float, compact the grout into the joints 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.
- Plug open-ended joints with the stiffer mix to prevent any slumping of the grout joints from occurring.

Statement of Responsibility (Disclaimer)

The technical information and application advice are based on present state of our best scientific and practical knowledge. As the information herein of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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- c. Within 30 minutes of application, clean off surplus grout. Use a EMULSIFYING PAD & GRIPPER dampened with clean water to break down (emulsify) the grout residue. 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. Tool joints to finish.
- e. Any light haze remaining on the tile surface can be cleaned off the next day using the EMULSIFYING PAD & GRIPPER and an alkaline detergent. Do not allow the haze to remain on the surface for any longer than 24 hours.

Cleaning

Ducon Tile Putty should be removed from tools, equipment with water immediately after use. Once set material can only be removed mechanically.

Limitations

Ducon Tile Putty should not be used when the temperature is below 5°C and falling. The product should not be exposed to moving water during application. If any doubts arise concerning temperature or substrate conditions, consult your local DPFOffice.

Estimating Supply

Ducon Tile Putty	1kg & 5kg
Coverage (for a joint size of 3mmx10mm (wxd))	1kg-13 rmt 5kg-65 rmt

Guide to calculation of quantity of grout

Number of liters required=

$$\frac{\text{Joint width (mm)} \times \text{joint depth (mm)} \times \text{joint length (m)}}{1000}$$

Shelf Life

Ducon Tile Putty has a shelf life of 12 months if kept in a dry store in the original, unopened bags or packs.

Storage Conditions

Store in dry conditions in the original, unopened bags or packs. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Technical Support

DPF offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, DPF offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Precautions

Health and safety

Ducon Tile Putty is epoxy resin based. Direct contact with eyes will cause irritation and may cause serious damage if left untreated. Any eye contamination should be washed immediately with clean water and immediate medical attention sought.

Gloves and barrier cream should be used at all times when handling Ducon Tile Putty, If contact with the skin occurs a resin removing cream should be used followed by washing with soap and water.

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