

## Product Description

Techno DynoGrout EG 80 is a three component, 100% solids, solvent free epoxy resin grout designed for grouting of gap widths of 10 to 80 mm. It is supplied as a three component system consisting of base, hardener and specially graded aggregate. The components are supplied in the correct mix proportions designed for whole pack mixing on site.

## Specification

Where shown on the contract documents, the epoxy grout shall be Techno DynoGrout EG 80 supplied by Techno Greens. It shall provide good general chemical resistance, 7 day compressive strength of at least 100 N/mm<sup>2</sup> and a compressive creep of 2.85N/mm<sup>2</sup> in accordance with ASTM C1181

## Uses

Provides a free flowing grout, for use where physical properties and chemical resistance of the hardened grout are of utmost importance. It is suitable for a wide range of heavy duty applications including :

- High performance machinery grouting
- Crane rail grouting
- Precision alignment under dynamic load conditions
- Vibration damping filler for rotating equipment
- Support of chemical tanks, vessels and rotating equipment
- Aggressive chemical environments
- Installation of anchors and dowels

## Advantages

- Permanent support for machinery requirement precision alignment
- High early strength
- Superior creep resistance
- Chemically resistant
- Excellent adhesion to steel

## Properties

Pot life : 2 hours @ 23°C

Tensile strength : 8 N/mm<sup>2</sup> at 7 days

Flexural strength : 20 N/mm<sup>2</sup> at 7 days

Mixed Density : 1.9 to 2.0 g/cc

Compressive strength : 75 N/mm<sup>2</sup> at 3 days  
100 N/mm<sup>2</sup> at 7 days

Maximum flow distance for a head of 100 mm at 20°C :  
35 mm gap - 2000 mm  
70 mm gap - 3500 mm

Coefficient of thermal expansion  
ASTM C531 : 28.1 x 10<sup>-8</sup>

Compressive creep  
(ASTM C1181- 2.85N/mm<sup>2</sup>  
1 year, 60°C) : 2.05 x 10<sup>-3</sup> mm/mm

## Application instructions

### Preparation

#### Underplate grouting

The unrestrained surface area of the grout must be kept to a minimum. Generally, the clearance between the perimeter formwork and the plate edge shall be (25-50 mm) on the pouring side and 25 mm on the opposite side. Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

#### Formwork

The formwork should be constructed of rigid non absorbent materials, liquid tight and strong enough to resist forces developed during grout placement as Techno DynoGrout EG 80 is a free flow grout. For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper should be used - please consult your local Techno Greens office for more details.

#### Foundation surface

Must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

#### Mixing

For optimum performance The entire contents of the hardener can should be poured into the base container and mixed until homogeneous. Place the mixed base and hardener into a suitable forced action mixer making sure that the entire volume is poured in.

Add the aggregate and mix for 2-3 minutes or until uniform colour is achieved. Once mixed, the material must be used within the specified pot life (see under Properties). After this time, unused material will have stiffened and should be discarded. Note: Immediately prior to placement, all surfaces must be dry.

#### Placing

Ensure that the grout can be placed within its pot life. Continuous grout flow is essential. Sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one. Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times so that a continuous grout front is achieved.

#### Cleaning

All tools and equipment should be cleaned immediately after use with suitable solvent

#### Hot weather working

Whilst the performance of Techno DynoGrout EG 80 at elevated temperatures is assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperatures above 35°C, the following guidelines are used:

- Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
- Ensure that there are sufficient operatives available to complete application within the material's pot life.

#### Limitations

Grouts should not be placed in any unrestrained situation, i.e. base plate plinths, etc. Failure to comply may lead to crack development in the grout.

## Estimating

### Supply

Techno DynoGrout EG 80 : 14 litre packs

## Storage

When stored in warehouse conditions below 35°C, Techno DynoGrout EG 80 will have a shelf life of 12 months.

## Precautions

### Health and Safety

Techno DynaGrout PG2 is alkaline and should not come into contact with skin and eyes. Inhalation of dust during mixing should be avoided. Gloves, goggles and dust mask should be worn. If contact with skin occurs, it shall be washed with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

### Fire

Techno Prime EP are flammable.

### Flash points

Techno Prime EP : 39°C

**Important:** Technokem products are guaranteed against defective materials and are sold subject to its standard terms and conditions of sale. It is the Customer's responsibility to satisfy themselves by checking with the Company whether the information is still current at the time of use. The customer must be satisfied that the product is suitable for the use intended. All products comply with the properties shown on current Technical Literatures. However, Technokem does not warranty or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendation relating to application and end use are given in good faith.

#### For Complaints/Suggestions:

Please write to our Customer Care Executive at

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