

# Flo-Grout EP270HF

High strength, highly flowable epoxy resin grout



## Description

Flo-Grout EP270HF is a three-component, high strength, highly flowable, epoxy resin grout. Flo-Grout EP270HF is suitable for grouting gaps with thicknesses between 10 - 150 mm at ambient temperatures between 10 - 40 °C.

## Applications

Flo-Grout EP270HF is ideally designed for use in the following applications:

- ▲ Machine base plates.
- ▲ Heavy crane rails.
- ▲ Pile top waterproofing.
- ▲ Bearing plinths.
- ▲ High-speed turbines.
- ▲ Grouting areas where occasional chemical spillage may occur.

## Advantages

- ▲ Excellent flowability.
- ▲ Resistant to dynamic loading.
- ▲ Non-shrink and low creep characteristics under continuous loading.
- ▲ Exceptionally high compressive, flexural and tensile strengths.
- ▲ Extremely dense.
- ▲ Exceptional bond to concrete and steel surfaces.
- ▲ Good chemical resistance.
- ▲ High early strength development allowing for rapid installation.

## Method of Use

### Substrate Preparation

The Substrate should be sound, clean and free from contamination. Surface laitance should be removed by scabbling or grit blasting.

Steel surfaces should be grit blasted to remove all rust and scale.

Concrete surfaces should be dry.

Holes drilled for anchor bolts should be thoroughly cleaned from dust and loose debris using a suitable brush or compressed air.

### Technical Properties @ 25°C:

Mixed density:	1.90 ± 0.05 g/cm <sup>3</sup>
Working life:	70 - 90 min @ 25°C 30 - 50 min @ 35°C
Compressive strength: BS 6319-2	≥ 92 MPa @ 7 days
Flexural strength: EN 13892-2	≥ 22 MPa @ 7 days
Tensile strength: BS 6319-7	≥ 12 MPa @ 7 days
Recommended working ambient temperature	10 - 40°C
Crack formation @ 150mm and 40°C:	No cracks
Water absorption: ASTM D570	≤ 0.15%
VOC:	< 10 g/ltr

## Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used. The entire content of the Hardener pack should be added to the Base pack. Care should be taken to ensure that the bottom and the product sides are thoroughly scraped and used. Mix the two components for 2 minutes.

The filler should be gradually added while mixing. Mixing should continue for 3 minutes or until a uniform consistency is obtained.

## Placing and Finishing

### Under Base plate:

Enough materials should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment.

To obtain maximum flow distance, a side shutter feed 100 mm height should be erected and used to build the required head.



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At 100 mm of the head, a flow distance of 1500 mm and 2600 mm can be achieved at gap thicknesses of 40 mm to 75 mm respectively @ 35°C ambient temperatures.

## Formwork:

As the mixed grout possesses high fluid characteristics, all formwork and shutters should be watertight. This can be achieved by sealing underneath the formwork and at the joints by using an appropriate mastic.

## Notes:

- ▲ If the application is done under high temperatures, care should be done because the working time will be reduced significantly.
- ▲ To reduce the effect of this problem, try to store the unmixed materials in a cool environment, avoiding the direct sunlight. Also, try not to make the application in the middle of the day or direct sunlight.

## Cleaning

All tools should be cleaned immediately after finishing using a suitable epoxy thinner. Hardened materials should be cleaned mechanically.

## Packaging

Flo-Grout EP270HF is available in 20 kg and 80 kg packs.

## Thicknesses and size limitation

Flo-Grout EP270HF can be applied in a single layer at thicknesses between 10 - 150 mm. For thicknesses greater than 150mm:

- ▲ Multiple layers can be applied after the initial curing of the previous layer.
- ▲ Flo-Grout EP330 can be used instead.

## Yield

Approximately 10 - 11 litre per 20 kg pack and 42 - 43 litre per 80 kg pack.

## Storage

Flo-Grout EP270HF has a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 35°C.

If these conditions are exceeded, contact DCP Technical departments for advice.

## Cautions

Flo-Grout EP270HF is irritant to the eyes, skin and respiratory system. Wear suitable gloves and eye protection.

For further information refer to the Material Safety Data Sheet

## Fire

Flo-Grout EP270HF is nonflammable.

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## Note:

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