

Flo-Grout EP260

High strength pourable epoxy resin grout



Description

Flo-Grout EP260 is a three component, high strength, free flowing, epoxy resin grout. Flo-Grout EP260 is suitable for grouting gaps with thicknesses between 10 – 100 mm at ambient temperatures between 5 - 35°C.

Applications

Flo-Grout EP260 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

- ▲ 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 suitable brush or compressed air.

Technical Properties @ 25°C:

Compressive strength: BS 6319, Part 2 : 1983	≥ 100 MPa @ 7 days
Flexural strength: BS 6319, Part 3 : 1990	≥ 28 MPa @ 7 days
Fresh wet density:	2.00 ± 0.05 g/cm ³
Tensile strength: BS 6319, Part 7 : 1985	≥ 15 MPa @ 7 days
Recommended working ambient temperature:	5 - 35°C
Crack formation @ 100 mm thickness and 38°C:	No cracks or bleeding
Peak exothermic temperature @ 35°C: ASTM D2471	50°C
Peak exothermic time @ 35°C: ASTM D2471	40 min
Water absorption: ASTM C413	< 0.15%
Working life:	50 - 80 min @ 25°C 20 - 40 min @ 35°C
VOC: ASTM D2369	< 30 g/ltr (complies with LEED)

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 obtained.



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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. At 100 mm of head, a flow distance of 500 mm and 1000 mm can be achieved at gap thicknesses of 40 mm to 75 mm respectively @ 25°C ambient temperatures.

Formwork:

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

Notes:

- ▲ If 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 EP260 is available in 20 kg packs.

Thicknesses and Size Limitations

Flo-Grout EP260 can be applied in a single layer at thicknesses between 10 - 100 mm. For thicknesses greater than 100 mm:

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

Yield

Approximately 10 litre/20 kg pack.

Storage

Flo-Grout EP260 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, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Flo-Grout EP260 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 EP260 is nonflammable.

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- ▲ Tile adhesives and grouts.
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Note:

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