

# MonniGrout EGP

## General Purpose Flowable Epoxy Grout

### Product Description

MonniGrout EGP is a three components solvent based epoxy grout consisting of base (A), hardener (B) and graded filler (C). When mixed together, the product becomes self leveling, free flow grout. It is designed for grouting of gap widths of 10-50mm.

MonniGrout EGP should be used in situation where heavy dynamic loads exist, high bearing and mechanical strengths are required, or high chemical resistance is needed.

### Uses

- ▶ Heavy machinery, equipment or structural elements needing maximum bearing support
- ▶ Large or wide plates requiring precision grouting
- ▶ Pile cap waterproofing sealing
- ▶ High vast lighting bases
- ▶ Narrow clearance situations including anchor bolts
- ▶ Pile cap head treatment and waterproofing
- ▶ Equipment bases where chemical and acid spillage occurs

### Advantages

- ▶ Excellent performance under dynamic or mobile loads
- ▶ Non-shrinking with high adhesion to contact surfaces
- ▶ High compressive, tensile and flexural strengths which give very good durability
- ▶ High chemical resistance
- ▶ Low creep characteristics under strained loading
- ▶ High early strength gain
- ▶ Excellent adhesion to steel and concrete
- ▶ Excellent fatigue resistance
- ▶ High resistance to dynamic loads, thermal effects and chemical attacks

### Usage Instructions

#### Surface Preparation

Concrete must be cured for a minimum of 21 days. All surfaces must be clean, sound, uncontaminated, free from oil, grease, water, paints and dust. Unsound concrete must be removed. Compressive strength of the concrete should not be less than 25 N/mm<sup>2</sup>

Concrete surface must be totally dry when the mixed product is poured as wet surface might cause de-bonding between concrete and the grout.

Steel surfaces should be free of rust. Sand blasting or grinding is recommended.

Formwork, if needed, must be well braced, leak proof, strong and will fixed as MonniGrout EGP product is free flowing grout.

Anchor bolt holes should be clean of all dust, dirt and should be dry.

#### Priming

Cleaned steel surface should be protected using MonniPrime EF only when there is a long delay in pouring the mix to avoid a chance of rusting of the surface.

#### Mixing

MonniGrout EGP is supplied in a pre-measured packing. Partial mixing should not be allowed under any condition.

Start mixing by pouring hardener B into base A, the two components must be well mixed to ensure proper chemical reaction.

Use a slow speed drill fitted with suitable paddle to mix the product at low number of turns (200 – 300 rpm).

Mix for few minutes till a homogeneous mixture is obtained, then add component C (filler/aggregate) and mix for 2 – 3 minutes until you get a uniform color mixture.

### Application

Start pouring the grout from one side to eliminate air entrapment, the placement of the grout must be continuous. MonniGrout EGP should be used immediately after mixing the components and during the working time of the mix.

### Cleaning

All used tools should be cleaned with SOLVENTE 10 before the product cures. Hardened material should be removed mechanically.

### Technical Data

Category	Typical Values
Color	Grey
Density at 25°C	2.0kg/L
VOC	4.2g/L
Pot life at 25°C	75 minutes
Compressive strength at 24 hrs	90 N / mm <sup>2</sup>
at 7 days	100 N / mm <sup>2</sup>
(ASTM C579)	
Flexural strength at 7 days	25 N / mm <sup>2</sup>
(ASTM C580)	
Tensile strength at 7 days	10 N / mm <sup>2</sup>
(ASTM C307)	
Chemical Resistance	Oil, Mild Acid and Alkalis, Water, Grease, and Most Chemicals
Abrasion Resistance	Higher than concrete
Impact Strength	Higher than concrete
Maximum Flow (100mm head)	
with 35 mm gap	1000 mm
with 70mm gap	1800 mm
Water Penetration	Nil
Peak Exotherm (200 g, adiabatic testing)	+20 °C - 165 min +30 °C - 130 min
Shrinkage or expansion factors (ASTM C531)	-0.05%
Bond strength (ASTM C882)	16 Mpa

Shrinkage before hardening(ASTM C827)	<2%
expansion before hardening (ASTM C827)	<2%
Effective bearing area	95 %
Compressive Creap @ 90 days	2.8 Mpa @ 60°C
Coefficient of Thermal Expansion (+5 °C min. / +30 °C max.)	2.3 x 10 <sup>-5</sup> 1/K
Coefficient of linear Expansion	(19.8 x 10 <sup>-6</sup> / °C @ 0°C to 60°C)

All values are subject to 5-10% tolerance

### Standards Compliance

- ▶ ASTM C1107/1107M-14 (previously CRD621) as Type B.
- ▶ ASTM C938-10
- ▶ Sampling as per ASTM C943
- ▶ EN 934: 2012 (testing as per EN480, EN 13395)

### Recommendations

- ▶ Do not apply MonniGrout EGP if the temperature is less than 5°C
- ▶ Partial mixing of the product components should not be allowed under any conditions
- ▶ Extra care should be taken when applying at high temperature as pot life of the mixed product will shorten automatically
- ▶ It is recommended to shade the working area while mixing and placing MonniGrout EGP

### Consumption

Approximately 2Kg/M2/mm

### Packaging

The product supplied in a three-component 30kg kit.

### Shelf Life & Storage

Keep the product in dry, covered conditions at 25°C. In these conditions, product stability is 12 months from date of manufacturing.

## Health & Safety

Wear protective gloves and goggles during application. This product contains chemicals which may be potentially harmful to your health if not used properly. It is strongly recommended to read the material safety data sheets for proper storage and to observe precautions.

If contact with skin or eyes happen, use resin cream to remove it from skin followed by clean water, do not use solvent. In case of contact with eyes, use clean water and seek medical consultation.

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