

### MONNELI EPOGROUT GP FLEX

*Flexible High Performance Fluid Urethane Epoxy Grout*

#### Product Description

EPOGROUT GP FLEX is a high strength, flexible material three component fluid urethane epoxy grout consisting of base (A), hardener (B) and graded filler (C). Specially formulated to be used as a pile head treatment. When applied to top of the pile head, the product provides a highly bonded waterproofing barrier to the pile head which prevents water seepage from ground to the pile caps through the piles.

#### Uses

The product is used in the following:

- Pile cap head treatment & protection
- Pile cap waterproofing sealing
- Heavy machinery, equipment or structural elements needing maximum bearing support
- Large or wide plates requiring precision grouting
- High vast lighting bases
- Narrow clearance situations including anchor bolts

#### Advantages

- Excellent performance under dynamic or mobile loads
- High early strength gain
- Non-shrinking with high adhesion to contact surfaces
- High compressive, tensile and flexural strengths
- Flexible
- Chemical resistant
- Durable
- Low creep characteristics under strained loading
- Excellent adhesion to steel and concrete
- Excellent fatigue resistance

- High resistance to dynamic loads, thermal effects and chemical attacks
- Primer not required
- Compatible with torch applied and self adhesive membranes.

#### Instructions for Use

##### 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 must be well braced, leak proof, strong and well fixed as EPOGROUT GP FLEX product is free flowing grout.

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

##### Mixing

EPOGROUT GP FLEX 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 homogenous mixture.

## Application

Start pouring the grout from one side to eliminate air entrapment, the placement of the grout must be continuous.

EPOGROUT GP FLEX 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.

## Recommendations

- Do not apply EPOGROUT GP FLEX 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 EPOGROUT GP FLEX.
- Do not expose to running water until cured.

## Consumption

15 liter for 3kg kit

## Packaging

The product supplied in a three-component 30kg kit

## Storage

Keep the product in dry, covered conditions at 25°C. In these conditions, product stability is 6 months from date of manufacturing.

## Technical Data

Properties	Results
Colour	Grey
Density at 25°C	2.0 kg/L
Pot life at 25°C	90 minutes
Compressive strength at 24 hours at 7 days (ASTM C579)	>20 N / mm <sup>2</sup> > 60 N / mm <sup>2</sup>
Flexural strength at 7 days (ASTM C580)	>15 N / mm <sup>2</sup>
Tensile strength at 7 days (ASTM C307)	>7 N / mm <sup>2</sup>
Chemical resistance	Oil, mild acid and alkalis, water, grease, and most chemicals
Water penetration	Nil
Abrasion resistance	Higher than concrete
Impact strength	Higher than concrete

All values are subject to 5-10 % tolerance

## 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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DUBAI  
ABU DHABI  
KSA  
ITALY

P.O. Box 123808 Dubai UAE  
P.O. Box 127326 Abu Dhabi, UAE  
P.O. Box 335896 Code: 11383 - Riyadh KSA  
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450  
T. +971 2 5511949 F. +971 2 5511749  
T. +966 1 2654277 F. +966 1 2654335  
T. +39 75 9221297 F. +39 75 9221174

colmef@colmef.ae

www.colmef-me.com

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