



# FIXGROUT GP

CEMENT BASED, HIGH STRENGTH, NON-SHRINK FLUID GROUT

- High fluidity
- Early compressive strength
- Non-shrinking
- Resistant to water, constant humidity, frost and extreme weather conditions

## DESCRIPTION

**FIXGROUT GP** is a single component, cement based, non-shrinking fluid grout.

## TYPICAL APPLICATIONS

- Repairing reinforced concrete structural components,
- Retaining wall and column headings,
- Fixing prefabricated concrete structural components,
- Fixing steel columns on concrete,
- Reinforced concrete and steel-wound jacketing applications,
- Filling gaps between existing and fresh cement,
- Bedding bearing elements and plates,
- Fixing steel columns on concrete,
- Fixing rebars and anchorage bars,
- Filling gaps around installation pipes and elements,
- Grouting pre- and post-tensioned pillars and beams,
- Filling tie-rod holes and core holes,
- Bedding high capacity bearing plates,
- Anchoring machine bases,
- Repair and maintenance of marine structures.

## ADVANTAGES

- High fluidity.
- High compressive strength.
- High bonding strength on concrete and reinforcements.
- Water resistant.
- Resistant to freeze/thaw cycle.
- Resistant to chlorine and sulfate attacks.
- Resistant to oils.
- Non-shrinking.

## TECHNICAL PROPERTIES

**Colour:** Grey

**Appearance:** Powder

**Mortar Density:** 2,15 ± 0,05 g/cm<sup>3</sup>

**Application Temperature:** +5 °C - +35 °C

**Application Thickness:** max. 100 mm

**Pot Life:** 30 min.

**Time Required To Be Operational:** 24 hours

**Service Temperature:** -30 °C - +80 °C

**Compression Strength (EN 12190)**

: > 25,0 N/mm<sup>2</sup> (1st day)

: > 65,0 N/mm<sup>2</sup> (7th day)

: > 80,0 N/mm<sup>2</sup> (28th day)

**Bending Strength (EN 12190)**

: > 5,0 N/mm<sup>2</sup> (1st day)

: > 6,50 N/mm<sup>2</sup> (7th day)

: > 10,0 N/mm<sup>2</sup> (28th day)

**Concrete Bonding Strength (EN 1542):** > 2,0 N/mm

**Capillary Water Absorption:** < 0,5 kg/m<sup>2</sup> h<sup>0,5</sup>

Above given values are valid for 23 °C ve 50% relative humidity

**Reference Standards**

EN 1504-3/R4 and EN 1504-6

**Public Works Pos. No:** 04.613/3-c

## DIRECTIONS FOR USE

### SURFACE PREPARATION

- Application surface should be clean, and free from dirt, oil, paint, loose particles, mortar and plaster residues.

- Saturate the surface with water, but any standing water should be removed.
- Anchorage holes should be free of water prior to application.
- While fixing of bolts, anchorage bars or bedding plates, make sure that their surfaces are clean and free from dirt, oil and paint.

### MIXING

- Dampen the interior of the grout mixer prior to mixing the initial batch of **FIXGROUT GP**. Ensure the mixer is damped thoroughly but is free of standing water.
- Add 3.4 liters of water into the mixer. Slowly add 20 kg of **FIXGROUT GP** into the mixer, while mixing. Mix using a low speed mixer for at least 5 minutes until a uniform, homogenous consistency is achieved.
- Rest the mixture for 1 to 2 minutes, and then mix again before use.

### APPLICATION

- It might be necessary to place a long chain or a metal rope into the application area to spread the mixture over large areas, and to prevent formation of air bubbles. If it is intended to use a chain, then move the chain rapidly before mortar begins setting. It is required to continuously pour the grout from a single side into the mold.

### CURING

- Upon initial setting, cure entire exposed area appropriately. It is recommended to use **INTERCURE** for curing.

### WATCHPOINTS

- The mix should not be tempered by any addition of powder or water.
- Application below +5 °C is not recommended.
- Do not vibrated.
- Cure properly.

### CONSUMPTION

20 kg of **FIXGROUT GP** will yield approx. 10.5 lt of mortar.

### PACKAGING

20 kg craft bag.

### STORAGE and SHELF LIFE

Store in dry and cool locations. Shelf life is 12 months if stored as recommended.

### HEALTH and SAFETY

As with all chemical products care should be taken during use and storage. Avoid contact with food, skin, clothes, eyes and mouth. If accidentally ingested seek immediate medical attention. In case of contact with skin or eyes, wash with a plenty of water and soap. Should be kept away from children. Reseal containers after use. Please consult Material Safety Data Sheet (MSDS) for further information.

**NOTE:** Information contained herein is based on our current scientific and application information. INTERFIKS Yapı Kimyasalları A.Ş. is liable only for the quality of product, and shall not be liable for consequences of any inappropriate uses of the product. This technical document shall remain in effect until a newer version is printed, and hereby substitutes all previous versions hereof. (01/2015)