

FARCO FIX GF1,GF2

High-Performance, 3-Part Epoxy Anchoring Grout

Product Description

FARCOFIX GF1,GF2 is a 3 component high strength, solvent free epoxy anchoring grout Which is produced in two types:

1. GF1 for grouting anchors and bolts in horizontal surfaces with flowable consistency.
 2. GF2 for grouting anchors and bolts in vertical surfaces with thixotropic behavior.
- After mixing, applying and curing it gradually gains its highest mechanical strength at early ages.

Application

- Anchorage of bolts and fixings
- Permanent fixing of starter bars and fixings
- Installation of hand rails, safety fence, wall ties, railway tracks and ground anchors.
- Injection under base plates with minimum clearance

Advantages

- Exceptional bond to concrete and still surfaces
- Shrinkage-free hardening
- Rapid strength development
- Good chemical resistance

Standard Compliance

GF1 and GF2 are evaluated according to the following standards:

- ASTM C881 TYPES I, II, IV, V
- ASTM E488

Technical Information

| | |
|---|--------------------------------|
| Base | solvent free epoxy |
| GF1 | Flowable type |
| GF2 | Thixotropic type |
| Specific Gravity (GF1) | 1.5 kg/l |
| Specific Gravity (GF2) | 1.65 kg/l |
| Appearance A,B | Colorless and yellowish liquid |
| Compressive Strength (10 days, kg/cm ²) | >800 |
| Flexural Strength (kg/cm ²) | >200 |
| Water Absorption | <0.5% |

Pull-off tests

| Rebar size(mm) | Depth(mm) | Max.Load (kg) | Result |
|----------------|-----------|---------------|-------------------------------|
| 18 | 250 | 14400 | Failure of rebar and concrete |
| 18 | 400 | 17500 | Max load of instrument |

The recommended dimensions of sleeves and rebars

| Rebar size(mm) | Ø8 | Ø10 | Ø12 | Ø14 |
|-----------------|---------|---------|---------|---------|
| Sleeve diameter | 10-12 | 14-16 | 16-18 | 18-20 |
| Sleeve depth | 80-96 | 100-120 | 120-180 | 180-210 |
| Rebar size(mm) | Ø16 | Ø20 | Ø22 | Ø28 |
| Sleeve diameter | 20-22 | 26-28 | 30-32 | 36-38 |
| Sleeve depth | 160-240 | 200-300 | 220-330 | 280-420 |

Instruction for Use

Surface Preparation

- Drill holes to proper diameter and length, Clean holes with a nylon brush.
- Blow concrete dust from hole with oil-free compressed air from back forward.

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Mixing

Add component B to A and mix slowly until homogenous, and then pour PART C gradually while mixing until lump free mixture is achieved.

The prepared grout has a pot life of about 30 min at 25 °c

Placing and Finishing

- Fill holes 1/2 to 3/4 full beginning at the bottom of hole.
- Insert the anchor bolt, threaded rod or rebar to the bottom of the hole while turning clockwise.
- The bolt or fixing must be left undisturbed until the resin has set.
- GF1 has flowable consistency so can be poured easily into the holes in floors or slope sleeves.
- GF2 has thixotropic consistency and non slump properties, but in case of high tem-

peratures use capping to avoid outflow of the grout from the sleeve prior to setting.

· The suitable ambient, mixture and component temperatures are between 18 to 28 °c, it is recommended to keep the components at the desired temperatures long enough prior to grouting.

Packaging

GF1 and GF2 are supplied as follow:

| | | | |
|------|--------|---------|----------|
| GF1: | A=1 kg | B=500 g | C=2.1 kg |
| GF2: | A=1 kg | B=500 g | C=4.2 kg |

Shelf life and Storage

1 year when stored in the unopened container in a dry location.

Technical Service

The SHIMISAKHTEMAN Technical Service Department is available to assist you in the correct use of our products in the field.



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