# EP GROUT FF

TECHNICAL DATA SHEET

**HIGH STRENGTH FREE FLOWING EPOXY GROUT**

## Description

EP GROUT FF is a free-flowing High Strength Epoxy Resin Grout. EP GROUT FF is an Epoxy resin grout designed for grouting of gap widths of 10 to 75 mm. It is supplied as a three-component system consisting of base, hardener and specially graded aggregates. The components are supplied in the correct mix proportions designed for whole pack mixing on site.

## Uses

EP GROUT FF is a free-flowing Grout, used in applications where physical properties and chemical resistance of the cured Grout is of utmost importance. It is suitable for a wide range of applications which includes:

- Under plate grouting to structural elements.
- Base plate grouting in dynamic load situations such as Turbines and other reciprocating machinery.
- Heavy industrial applications in steel works, refineries Chemical plants and electroplating works.
- High strength filling for Structural systems.
- Rail track applications, to support heavy cranes, or on Transporter rails.

## Advantages

**Excellent durability:** High compressive, flexural and tensile Strengths ensure a long working life.

**Cost effective:** High early strength gain reduces the minimum Downtime for early commissioning of plant.

**User friendly:** Simple, pre- packed, at site mixing to ensure optimum Performance characteristics

**Versatile:** Suitable for a wide range of loading situations including repetitive Dynamic loads.

**Excellent service performance:** Non-shrink capability Ensures full surface to surface contact.

## Packaging

EP GROUT FF is supplied in: 19 Kg pack

## Technical Data

| | |
|---|---|
| Mixed density @ 27C | Approx 1.98 gm/cc |
| Pot life | 30 minutes @ 20C<br>20 minutes @ 30C |
| Application Temperature | Min 12C to Max 30C |
| Compressive strength @ 30<br>(BS6319 Part2: 1983)<br>1 day<br>3 days<br>7 days | <br><br>Approx 50N/mm2<br>Approx 65N/mm2<br>Approx 78N/mm2 |
| Tensile strength:7 days<br>(BS6319 Part 7: 1983) | 14Nmm2 |
| Flexural strength :7 days<br>(BS 6319 Part 3: 1983) | 24N/mm2 |
| Maximum flow distance for a head of 100mm @30°C | |
| 35 mm gap | 2000 mm |
| 70 mm gap | 3200 mm |

## Yield

Approx. 9.5 Liter volume per 19 kg pack

## Application information

**Preparation**

**Under plate grouting**

The unrestrained surface area of the grout must be kept to a minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring side and 25 mm on the opposite side. Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

**Formwork**

The formwork should be constructed to be leak proof as EP GROUT FF is a free flow grout. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper should be used.

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**Foundation surface**

This must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitence, it must be cut back to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

**Base plate**

If delay is likely before placing steel base plates, it is recommended that the underside and edges are clean with RUSTCURE and coated with EPCOAT Primer to prevent rust formation and ensure bonding with the EP GROUT FF grout. All metal surfaces should be cleaned to a bright finish in accordance with Swedish Standard SA 2½ or equal. EPCOAT Primer can be applied directly onto newly cleaned steel surfaces even if they are damp.

**Mixing**

The entire contents of the hardener can should be poured into the base container and mixed for 2-3 minutes or until uniform colour is achieved. Once mixed, the material must be used within the specifi ed pot life (see under Properties). After this time, unused material will have stiffened and should be discarded.

Note: Immediately prior to placement, all surfaces must be dry

**Placing**

Ensure that the grout can be placed within its pot life. Continuous grout flow is essential. Sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one. Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times so that a continuous grout front is achieved.

## Cleaning

All tools and equipment should be cleaned immediately after use with Xylene

## Safety precautions

User must read Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## Note

All Technical Data Sheets of FIRST CHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

## Disclaimer

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