

GP FC MORTAR

CHEMICAL AND ABRASION RESISTANT EPOXY MORTAR

Description

GP FC MORTAR is a three part solvent free combination of epoxy resin and hardeners filled with specially graded chemically inert aggregates with high crushing strength it is laid by trowel as a durable chemical resistant mortar 3 - 6 mm thick depending upon the requirement.

Recommended Use

GP FC MORTAR provides an extremely high strength floor topping with exceptional resistance to the surface and at the same time has a safe non-slip finish for personnel vehicular traffic. Ideally suited for engineering plants, chemical handling and processing areas, steelworks, dairies, refineries, paint workshops, battery rooms and food processing plants.

In areas where high degree of cleanliness is required the surface of GP FC MORTAR can be sealed with GP Seal FC-733 & GP SL Guard FC-721/721 HT

Features And Benefits

- Durable : Exceptional resistance to abrasion and to a wide range of chemicals.
- Non-slip: Good gripping surface to both vehicular and pedestrian traffic.
- Easily laid : Designed for easy laying to a fair finish.
- Chemical Resistance : Unaffected by wide range of acids, alkalis and industrial chemicals.

Physical Data

POT LIFE	: 30 mins
INITIAL HARDNESS	: 16 hrs
FULL CURE	: 7 days
THEORETICAL SPREADING RATE	: 0.33sq.mt./ltr. at 3mm
SHELF LIFE	: 6 months

Application Instructions

Surface Preparation

It is essential that GP FC Mortar is applied to, sound clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system.

New Concrete substrate

Should be at least 28 days old (moisture content should be less than 5%). Laitance deposits on new concrete floors are best removed by light grit blasting, mechanical scabbling, grinding or acid etching. After etching the floor should be thoroughly washed with clean water and then allowed to dry.

Old Concrete floors

Again mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contaminations by oil and grease have occurred or existing coatings are present. This may well have been absorbed several mm. into the concrete. To ensure adhesion all contamination should be removed by suitable means. All dust and debris should be removed prior to laying GP FC Mortar.

Application Data

MIXING RATIO	: As per our recommendation
RECOMMENDED DFT	: 3 - 6mm
COMPATIBILITY	: GP Seal FC-733 GP SL Guard FC-721/721 HT.

Priming



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All surfaces to be treated with GP FC mortar should be primed with GP Prime FC-708 / GP Prime FC-707 concrete clear primer. The base and hardener to be mixed in the recommended ratio and to be applied in a thin continuous film to the clean prepared surface. Work the primer into the surface using stiff brushes, roller or spray, avoid over application and puddling.

Mixing

A suitable forced action mixer such as a paddle fitted in to a heavy duty, slow speed electric hand drill and similar equipment is recommended for mixing. The entire contents of hardener tin should be poured in to the base container and mixed thoroughly until homogeneous. It is recommended that the aggregates in the bag are blended well manually before adding to the mixed resin and hardener. Then add the aggregates slowly to the mixed resin and hardener, continue mechanical mixing for a further 2-3 minutes, until all the components are thoroughly blended. Once mixed, the materials must be used within the specified pot life. After this time, unused materials will have stiffened and should be discarded.

Application

The mixed GP FC Mortar should be spread to uniform thickness on the primed surface using a steel trowel. The material should be tamped with a wooden float to ensure complete compaction and finally finished to a closed even texture using a steel trowel.

Expansion Joints

Expansion joints in the existing substrate should be continued through the GP FC Mortar topping.

Sealing

Where high degree of cleanliness is required, GP FC Mortar may be sealed with GP seal coats.

Additional Information:

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following section of Grand Polycoats' latest Data manual:

- Guide to Product Data Sheet
- Surface Preparation Details
- Health & Safety Sheet

Notes

1. Spray equipment should be cleaned with GP's recommended cleaning materials otherwise equipment is liable to be damage.
2. Surface temperature must always be minimum of 3°C above Dew point.
3. Shelf life indicated is minimum for this Product in sealed conditions and it is subject to re-inspection thereafter. Individual component is required to be stored in cool, dry and covered condition, away from heat and ignition
4. GP FC MORTAR A is also available for better acid, alkali & chemical resistance.

Health & Safety

Please refer our directive sheet on Health & Safety and MSDS.

Limitation of Liability

To the best of our knowledge, the technical data in our literature are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. We make no other warranty or guarantee of any kind, express or implied, including merchantability and fitness for particular purpose. Liability, if any, is limited to replacement of the product or refund of the purchased price. Labour or cost of labour and other consequential damages are hereby excluded.



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