



GP FLOOR MORTAR SCREED 4MM

HEAVY DUTY EPOXY FLOOR TOPPING

GP FLOOR 4MM is a three component, trowel grade heavy duty floor topping consisting of epoxy resin amine hardener and graded quartz filler. This system is characterized with excellent mechanical properties, high resistance to wear and a wide variety of chemicals. It is specially designed as a heavy duty topping industrial floors 5-20 mm thick with pot life adjusted to tropical climate.

USES:

GP FLOOR 4mm is specially formulated for use on industrial floors where a high degree of abrasion chemical resistance and excellent mechanical properties are required. Typical floor suited for application with GP FLOOR 4MM are chemical plants machinery services areas, warehouses dairies, garage loading ramps, food processing etc.

ADVANTAGE:

Extremely good in impact and abrasion resistant

Excellent resistant to chemical spill

High strength and proved quality

Non slip surface to both pedestrian and fork lift traffic.

Suitable for food processing areas

Longer pot life suitable for tropical climate

Available in standard grey and red colors

TYPICAL PROPERTIES:

Compressive Strength : (50 50mm cube) ASTM C 109

24 Hrs-65N/SQM.M

3 days -85n/sqm.m

Tensile strength ASTM 638 : 3 Days-15N/SQM.M

Flexural strength ASTM 580 : 3days – 18n/sqm.m

Abrasion resistance: Depth of wear after 20 minutes 0.3mm



(ASTM C 779 method c)

Bond strength to concrete: +3n sqmm (Great than cohesive strength of concrete)

Density : 2000kg/cu.m

Absorption ASTM C 413 : 0.1%

Pot life : 25c – 120 minutes

35c – 60minutes

Initial Hardness : 25|35

Full cure : 3 days

Chemical resistance: Excellent to very good chemical. Resistant to dilute acids, Alkalis, grease, petrol, detergent etc(Consult Global Paints for chemical resistant chart)
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Appearance: Colored, fine texture, impermeable skid proof surface

Minimum Laying temperature:10c

SPECIFICATION:

The epoxy resin base bonding system of GPF FLOOR 4MM conform with ASTM specification C881 type 3,4, Grade 1, Class B,C,D,E,F.

DIRECTION FOR USE:

SURFACE PREPARATION:

NEW CONCRETE

Concrete should be at least 28 days old and preferably polyethylene plastic sheets. Finish concrete with wood or plastic float to achieve a slightly rough texture. Before priming treat the floor with GP SOLVENT 111 is to remove laitance (see separate leaflet). Wet scrub with hard bristled broom and wash with clean water. Allow to dry then remove any loose dust with industrial vacuum cleaner.

OLD CONCRETE

Old concrete should be free from oil, grease, coatings, curing compound, dirt and foreign matter. Light contamination of oil and grease can be removed using GLOBAL PAINTS DEGRESAR. Where areas are heavy contaminated with oil, grease,(such as in large maintenance shops) mechanical cleaning methods such as captive shot blasting should be employed. What ever cleaning method is employed concrete should be washed with clean water allowed to dry vacuum cleaned to remove any loose duct.



JOINTS

Expansion joints in the substrate should be carried through the epoxy topping and later sealed with appropriate sealant. Isolation joints measuring 20mm width and depth should be installed where topping abuts restraining structure such as columns and walls. As general rule GP FLOOR 4MM should not span over joints.

PRIMING

Prime the prepared concrete substrate with GP PRIME 110 an epoxy primer. In application, where the solvent vapors are undesirable, use solvent free epoxy primer.

GP prime 110 comes in pre-weighed 2 component pack. Each component should be stirred first before mixing the two together. It can be mixed by volume using 4:1 ratio. Mix the two components together for 5 minutes then apply on to the substrate using brush or roller at the rate of 4 to 6 sq. metered per liter. On porous floors dry patches may appear. Apply another coat. Let primer stand for at least 30 minutes (but not more than 3hrs at 35c ambient) to allow solvent to evaporate.

MIXING

GP FLOOR 4MM comes in accurately weighed packs. Under no circumstances should part mixing be allowed. First transfer the contents of part A and part B and mix for 3-5minutes. Transfer the mixed liquid to a clean container. Add part C filler and mix using a slow speed electric drill fitted with a paddle (200-300 rpm) mix for 5 minutes or until uniform in colour and the aggregates are evenly coated. Spread the mixed GP FLOOR 4MM on the primed, tacky substrate at a uniform thickness. Compact the epoxy topping with a wood float. Final finish a steel trowel to close fine and texture and allow curing.

SEALING

Although GP FLOOR 4MM is impervious, it is recommended to seal the surface especially if the floor will be used in a hygienic situation or when this will be subject to constantly wet operations. Consult GLOBAL PAINTS technical dept. for further details.

CLEANING

GP FLOOR 4MM can be cleaned off from tools and equipment while still wet with GP SOLV 111

PACKING|COVERAGE:

GP FLOOR 4MM is packed in 16 kg kit part A,B and will yield a volume of 8 liters or cover 1:6 sq.meter (5mm thick) and 0.8 sq. meter(10mm thick)

**SHELF LIFE:**

Twelve months from date of manufacture if stored in original container in dry cool condition below 30c.

HEALTH AND SAFETY:

Some people are sensitive to epoxy resins. Users are advised to wear protective coveralls, rubber hand gloves, and eye goggles. Accident splashed to the eyes should be washed with plenty of water and immediate medical attention sought. Epoxy resins are considered skin irritants.

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