



TuffFloor G 10

Heavy Duty 4 - 10 mm Thick, Chemical and Abrasion Resistant Epoxy Floor Screed with Glossy Finish.

Uses

TuffFloor G 10 provides an extremely high strength glossy floor topping with exceptional resistance to attack from mechanical wear and chemical spillage. In addition to being impervious its use facilitates a safe non-slip finish for personnel and vehicular traffic, and is ideally suited for:

- Heavy engineering plants and steel works
- Electricity substations and battery rooms.
- Chemical handling and process areas.
- Oil refineries and plating factories.
- Dairies and soft drink factories
- Educational institutions.
- Industrial plants

Typical Applications & Advantages

- Colored Glossy Finish
- Easy Cleaning
- Long service life.
- Exceptional resistance to abrasion and a wide range of chemicals.
- Safe working environment
- Good gripping surface to both vehicular and pedestrian traffic.
- Minimal disruption – 5mm thickness causes little interference with existing levels.
- Established track record – successfully proven in a wide variety of aggressive locations.
- Versatile application – food grade and other special versions available to match individual requirements.
- Hygienic – provides a dense, impervious, seamless floor surface which is easily cleaned
- Attractive – Can be made in a wide range of colors up on request to enhance the working environment

Product Description

TuffFloor G 10 is a solvent free epoxy screed filled with specially graded inert aggregates. It is supplied in pre-weighed units of three part as Part A, Part B & Part C which are ready for on-site mixing and application. **TuffFloor G 10** is laid by notched trowel as a durable, chemically resistant screed approximately 5mm thick.

Typical Properties

Final cure	: 7days
Specific gravity	: 1920 kg/m ³
Application thickness	: 5mm

Technical Support

GIC provides a comprehensive technical support service to specifiers, end users and contractors and is able to offer on-site technical assistance.

Instructions for Use

Surface Preparation: Ensure the concrete foundation surface is dimensionally stable and free of dirt, dust, oil, laitance, paint, curing compounds etc. Bolt holes and fixing pockets should be free from any dirt or debris. If possible a roughened surface is preferable to smooth surfaces. Metal surfaces must be free from rust, loose scaling and paint. Shuttering should be covered with polyethylene to ensure a clean release.

New concrete Floors: Should be at least 21 days old (at 20⁰c) with maximum moisture content not exceeding 5%. Laitance deposits on new concrete floors are best removed by light grit blasting, mechanical scrubbing or grinding.

Old Concrete Floors: Again, mechanical cleaning methods are strongly recommended on old concrete floors particularly where heavy contamination by oil and grease has occurred or existing coatings are present. These may well have been absorbed several millimeters in to the concrete. To ensure adhesion, all contamination should be removed. Proprietary chemical degreaser may be used on small areas of light contamination only.

Steel Surfaces: Steel surfaces should be degreased and grit blasted to SA2^{1/2} immediately prior to application.

Priming: All surfaces should be primed with TufBond MP designed for maximum absorption and adhesion to concrete substrates. Add the entire content of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes – under no circumstances should part mixing be considered.



Once mixed the primer should be applied immediately to the prepared substrate using stiff brushes or rollers. The primer should be well scrubbed in to the substrate to ensure full coverage, but care should be taken to avoid over application or ponding. Allow the primer to dry before proceeding to the next stage, do not proceed while whilst the primer is tacky as this will lead to unsightly marks in the finished surface. Porous substrate may require a second primer coat – when the first coat is directly absorbed in to the substrate – but minimum over coating time must still be observed. The over coating time will vary slightly according to the porosity of the substrate. However, they should be in accordance with the following ambient application temperatures.

20°C	:	6 – 24 hours
30°C	:	3 – 16 hours
40°C	:	2 – 10 hours

Mixing: Do not commence mixing until all surface preparation, cleaning and shuttering is complete. **TuffFloor G 10** is supplied in pre-weighted units and do not split units during mixing. Add Part B to Part A in a suitable forced action mixer and stir for 30 seconds. Gradually empty Part C into the mix and continue mechanical mixing for a further 2 – 3 minutes, until all components are thoroughly blended and achieved a uniform consistency and color.

Application: Ensure that the mixed **TuffFloor G 10** should be spread to uniform thickness on the primed surface using a notched trowel. Using a spiked roller, remove air entrainment and allow to cure. Once mixed, the material must be used within the specified pot life. After this time, any unused material would have stiffened and should be discarded.

Watch Points

- **TuffFloor G 10** should not be applied on to surfaces which are known to or likely to suffer from rising damp or have a relative humidity greater than 75%.
- Acid etching if used as a method of floor preparation, the method should be approved by the project consultant.
- Not recommended for temperatures outside the range of 5 - 40°C.
- Generally not recommended for external use.

Equipment Care

Clean all equipment promptly using suitable GIC Solvent. Cured material will have to be mechanically removed.

Packaging & Storage

TuffFloor G 10 is available in factory, pre-weighted units of 12.5 ltr. It has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Coverage

3 m²/pack @ 4 mm thickness.

Health & Safety Precautions

TuffFloor G 10 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately – do not induce vomiting.

For further information refer to the Material Safety Data Sheet available for this product.

Important note

GIC endeavors to ensure that the technical information contained herein is true, accurate and represents our best knowledge and experience. No warranty is given or implied, as GIC has no control over the conditions of use and the competence of any labor involved in the application are beyond our control.

As all GIC technical data sheets are updated on a regular basis it is the customer's responsibility to check that the product is suitable for the intended application, and that the actual conditions of use are in accordance with those recommended.

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