



TuffFloor EH

Emery Based Monolithic Non-Metallic Floor Hardener

Uses

- Provides an extremely hard abrasion resistant surface to fresh concrete floors.
- Suitable for all industrial floors subjected to the heaviest traffic.
- Application by the dry shake method ensures the hard wearing surface and bonds monolithically to the base concrete.

Typical Applications & Advantages

- Hard, dense surface, resistant to oils and grease.
- Forms monolithic bond with fresh concrete base.
- Provides an extremely hard wearing, abrasion and impact resistant surface.
- Supplied ready to use – no additives required.
- Reduces dusting and penetration of many aggressive liquids.
- Ideal for work shops, ware house floors, loading bays, laboratories, heavy industries, power stations engineering workshops, refineries, etc.

Product Description

TuffFloor EH is a factory blended, quality controlled powder consisting of special hard-wearing emery aggregates which is ready to use on-site. Special additives and other chemicals, improves its workability and makes it easy to trowel into the surface of fresh wet concrete. **TuffFloor EH** cures monolithically to provide a dense, non-porous surface which is extremely hard wearing and abrasion resistant.

Typical Properties

Bulk Density:	1800 kg/m ³
Hardness (Mohs Scale)	
The emery based aggregate used in TuffFloor EH has hardness in the range of 8 – 9 on the Mohs Scale.	

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

TuffFloor EH should be applied at an even application rate of 5kg/m² to the freshly laid concrete floor by the dry shake method. It is recommended that the floor be marked off into bays of known area. Application **TuffFloor EH** should begin without delay when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3-6mm. On large floors it will be necessary to work progressively behind the laying team to ensure application at the correct time.

The powder shall be applied in two stages, in accordance with the manufacturer's instructions, to achieve an overall application rate not less than 5kg/m².

The first application is broadcast at an even rate of 3kg/m² onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the base concrete, this first application can be floated. Wooden floats or on large areas, a power float may be used. It is important, however, that the surface is not overworked.

Immediately after floating, the remaining 2kg/m² of **TuffFloor EH** is applied evenly over the surface at right angles to the first. Again when moisture has been absorbed the surface can be floated in the same way as before. Final finishing of the floor using the blades of a power float can be carried out when the floor has stiffened sufficiently so that damage will not be caused.

Cleaning: All equipment should be washed with clean water immediately after use and before the material has hardened.

Curing: Proper curing of concrete floors treated with **TuffFloor EH** is essential to the physical properties of the finished floor. For indoor applications where breakdown of curing membrane is slower, alternative approved methods of curing such as polythene sheets taped at the edges is acceptable.





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Watch Points

- Failure to cure the concrete slab immediately and continuously after application will result in lower strengths and cracking of the surface.
- Application of **TuffFloor EH** should not take place in direct sunlight when hot & drying winds are blowing. This often results in cracking.

Coverage

TuffFloor EH should be applied at the rate of 5 kg/m². A 25kg bag will give a coverage of approximately 5m² if the manufacturer's application instructions are followed strictly.

Packaging & Storage

TuffFloor EH is supplied in 25kg bags and it has a minimum shelf life of 12 months provided it is stored under cover, out of direct sunlight.

Health & Safety Precautions

TuffFloor EH 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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