

4-8mm, heavy duty, chemical & abrasion resistant, epoxy screed**Product Description**

TuffFloor Mortar is a heavy duty, three component epoxy resin based flooring material applied by trowel, between 4-8 mm thickness, as a semi dry mortar. The surface is slightly granular in texture with good non-slip properties. **TuffFloor Mortar** provides an extremely high strength floor topping which exhibits exceptional abrasion and chemical resistance. The wearing surface is non-slip making it suitable for pedestrian and light traffic use in wet areas.

For clean areas, continuously wet areas and applications requiring maximum chemical resistance seal with **TuffFloor EpoxyCote WD or DryCote**.

Typical Applications

Suitable for use in heavy engineering plants, workshops, loading bays, chemical handling and process areas, steelworks, refineries etc. When sealed use in wet working areas, battery rooms and food and drinking processing.

Advantages

- Impact and abrasion resistant- suitable for heavy industrial use.
- Seamless- eliminates potential for ingress of chemical leading to substrate failure.
- Excellent chemical resistance when sealed- suitable for areas of chemical spillage.
- Can be applied vertically- ideal for coverings, plinths and steps.
- Non-slip- good wearing surface for light vehicle & pedestrian traffic.

Directions for Use

Surface Preparation: All porous concrete/cementitious substrates should be dry (maximum 5% constant moisture content), clean and sound. DPM's should be installed and intact. Vacuum blasting or similar is preferred on all smooth or dense surfaces. Thorough acid etching with **TuffFloor Acid-etch** should be considered when the above cannot be used.

All steel surfaces must be shot or grit blast to BS 7079 2nd A2^{1/2} quality or Swedish Standard 2^{1/2}

Priming: Use **TufBond GP**, solvent free sealer. Mix components using a slow speed drill for four minutes. Apply by brush or roller at 5-8 m²/ litre. Very porous substrates may require two coats. Separate technical data is available for **TufBond GP**.

Screed mixing: All mixing should be carried out mechanically i.e. slow speed drill and suitable paddle for pack size. Pre-mix parts A & B for 2 minutes before adding the aggregate; continue mixing for another 2 minutes, scraping down sides occasionally to ensure complete mixing.

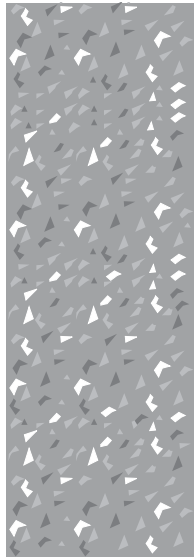
Application: Whilst the primer coat is still tacky, spread all the mixed material onto the prepared substrate. Spread to the correct thickness using a wooden trowel or steel straight edge. After application thoroughly compact the material and close up the surface with a clean steel trowel. To minimise colour variation, keep mixing times and trowel methods consistent. Pay particular attention to edges and joint details.

Typical Properties

Pot life	: 30 mins @ 30°C.
Working time	: 45 mins @ 30°C.
Traffic times	: 24hours pedestrian
Application temp	: 10°C to + 45°C .
Service temperature	: -30°C to + 65°C.
Compressive strength	: 60 N/mm ²
Tensile strength	: 13 N/mm ²
Flexural strength	: 20 N/mm ²
E Modulus	: Approx.15 N/mm ²
Pressure washing	: Max temp 75°C

Notes on Applications

- For work in continuously wet areas and for maximum chemical resistance, seal **TuffFloor Mortar** with **TuffFloor DryCote**. Allow the mortar to cure for a minimum of 12 hours before sealing.
- All expansion and movement joints must be carried through the screed. Seal using

**GIC**

TuffFlex PS250 or ER280.

- Allow curing for 24 hours before light traffic and allow 7 days before exposure to chemical attack.

Coverage

TuffFloor Mortar applied at 2.3m²/ 25 kg unit will give a 5mm screed.

A priming coat of **TufBond GP** is required.

Standard Colours

Red (BS 04C39) & Grey (BS 18B23). Other colours available upon request. BS numbers are quoted for reference purposes. Due to heavy filler loading these colours are given as an indication only as being complimentary to GIC's standard colour range for industrial flooring products e.g. **TuffFloor DryCote & TuffFloor Smooth**. Colour uniformity may vary slightly over large areas.

Packaging & Storage

TuffFloor Mortar is supplied in 25 kg factory quality controlled and pre-weighed units. Sealed units can be stored for up to 9 months in cool, shaded, dry warehouses.

Health & Safety

TuffFloor Mortar contains liquid epoxy resin and a polyamine compound. Avoid contact with eyes, mouth, skin and foodstuffs. Wear suitable gloves and eye/ face protection. Harmful if in contact with skin and if swallowed. Seek immediate medical attention if in contact with eyes or ingested.

Technology Transfer

TuffFloor products are manufactured in collaboration with AMTRED Ltd. of UK. **TuffFloor Mortar** is AMTRED Epoxyfloor Mortar.

Other Industrial Flooring products available from GIC.

TuffFloor EpoxyPaint SB- Solvented chemical and abrasion resistant coating.

TuffFloor EpoxyPaint WD-Matt finish, water dispersible epoxy floor coating.

TuffFloor EpoxyCote WD & WD Matt- High

build water dispersed epoxy floor coating.

TuffFloor EpoxyCote AS- Antistatic floor coating.

TuffFloor DryCote & DryCote 100- High build chemical resistant liquid resin floor coatings.

TuffFloor AntiStatic- 2.5-4mm seamless, self smoothing, chemical resistant static conducting floor system.

TuffFloor Smooth & Smooth HD- 2.5-8mm seamless chemical resistant, decorative self smoothing screeds.

Rev. Jan 2004.