

# TIBMIX

Pre-blended metallic dry shake floor topping



## DESCRIPTION

TIBMIX is a non-oxidizing, chemically inert, metallic dry shake floor topping for monolithic floors. The product contains a blend of specially graded aggregates, additives and Ordinary Cements. TIBMIX can also be used to suppress steel fibres in concrete floors.

When trowelled into freshly laid concrete, TIBMIX produces a dense, tough, abrasion resistant surface suitable for most industrial floors. The product is designed for application either by hand or using automatic spreading equipment.

TIBMIX should be used in conjunction with Setseal 6 polymer curing membrane/sealer/hardener.

## APPLICATIONS

- » Heavy industries.
- » Power stations.
- » Parking areas.
- » Warehouses.
- » Workshops.
- » Loading bays.
- » Service stations.
- » Aircraft hangars.

## ADVANTAGES

- » Dense surface resistant to oil and grease.
- » High resistance to wear and abrasion.
- » Easy to apply.
- » Non oxidising floor hardener.
- » Premixed, ready to use.
- » Reduces surface dust.

## STANDARDS

TIBMIX complies with EN 13813, Class CT-C80-F7-AR0.5. TIBMIX complies with BS EN 13892-4 AR0.5 (Special Class).

## BASE CONCRETE LIMITATIONS

The following concrete limitations and properties should be considered to obtain a hard concrete surface with high abrasion resistance:

- » The compressive strength is recommended to be a minimum grade C32/40.
- » Cement content should be no less than 325 kg/m<sup>3</sup>.
- » W/C ratio should be at a minimum required value to achieve fully compacted concrete without excess surface water.
- » Proper concrete compaction and leveling is a must.

## TECHNICAL PROPERTIES:

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Colour:                                 | Variable                         |
| Compressive strength*:<br>BS EN 13892-2 | ≥ 80 N/mm <sup>2</sup> @ 28 days |
| Flexural strength*:<br>BS EN 13892-2    | ≥ 7 N/mm <sup>2</sup> @ 28 days  |
| Abrasion resistance:<br>BS EN 13892-4   | AR0.5<br>(Special Class)         |
| Slip resistance:<br>BS EN 13036-4       | Dry 70<br>Wet 37                 |
| BRE screed test:                        | 0.5 mm                           |
| VOC:                                    | ≤ 10 g/ltr                       |

*\* Using a water addition 2.2 litres per 25 kg of TIBMIX.  
Anti-static properties: Conforms to the requirements of Table 2 of BS2050: 1978, which specifies the requirements for anti-static industrial and hospital flooring.*

- » Should free water be present at the surface this should be allowed to evaporate or brushed away before the application of TIBMIX.

## METHOD OF USE

- » The right time to spread the TIBMIX on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm.
- » Broadcast the TIBMIX evenly over the surface of the base concrete. Where manual trowelling is involved, application in two stages is recommended.
- » The first stage should be to apply two-thirds of the coverage rate of TIBMIX and allow the material to absorb moisture from concrete. When a uniform dark colour appears, indicating that the material is wet, TIBMIX should be trowelled in, either by hand or using a power float (pan fitted with blades). Stage two is to apply the remainder of the coverage rate and to repeat trowelling.
- » For large floor constructions, TIBMIX can be spread and trowelled satisfactorily in one stage by mechanical means.
- » When the surface has sufficiently stiffened (usually about two hours from the first trowelling), a second trowelling should be carried out to close any pores and remove surface undulations. Further treatment may be necessary to remove disc marks and to achieve the final finish required.

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- » Care must be taken not to wet the application of TIBMIX with water addition not to affect the overall quality of the floor.
- » Proper curing should be maintained and the surface is not to be marred by the curing method.

## TIMING OF APPLICATION

The timing of TIBMIX application is critical. Adequate machinery, labour and material should be available to complete the whole area while sufficient concrete moisture is available.

Applying TIBMIX before or after the proper application time can seriously affect the quality of the concrete floor finish.

## CURING

After final trowelling is complete, Setseal 6 (see appropriate data sheet) should be applied by spray taking care to avoid any puddling.

Appropriate measures must be taken to prevent the surface from drying out too rapidly.

The use of polythene sheeting is not recommended as this can cause blooming of the surface, particularly with coloured TIBMIX.

## JOINTS

Floor expansion joints should be formed using a polyurethane joint sealant. Saw cut contraction joints may be filled with a polyurethane sealant or if a harder seal is required a flexible epoxy may be used.

## APPLICATION RATE

The recommended application rate is 5.4 kg/m<sup>2</sup> depending on the application - please contact our Technical Department.

## CLEANING

All tools should be cleaned immediately after finishing with water.

## PACKAGING

TIBMIX is available in 25 kg polythene-lined paper sacks.

## STORAGE

TIBMIX has a shelf life of 12 months from date of manufacture if stored in dry conditions under cover, in unopened bags clear of the ground in cool dry conditions, protected from frost and excessive draught.

The activity of the reducing agent added will be maintained and the mixed product will contain no more than 0.0002% (2 ppm) soluble chromium (VI) on the total dry weight of the cement.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## CAUTIONS

### HEALTH AND SAFETY

As TIBMIX contains Portland cement, TIBMIX may cause irritation to skin or eyes.

In case of accidental contact with skin or eyes, immediately flush with plenty of water and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

## FIRE

TIBMIX is nonflammable.

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- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
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- » Protective coatings.
- » Sealants.
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- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
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