



# TIBMIX 500

Pre-blended quartz/metallic dry shake floor topping

## Description

TIBMIX 500 is a non-oxidizing, chemically inert, quartz/metallic dry shake floor topping for monolithic floors. The product contains a blend of specially graded aggregates, additives and cements. TIBMIX 500 can also be used to suppress steel fibres in concrete floors.

Coloured versions of TIBMIX 500 are also available which contain a high quality, durable pigment.

When trowelled into freshly laid concrete, TIBMIX 500 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.

Abrasion resistance conforms to EN 13892-4 AR0,5 (Special Class).

TIBMIX 500 should be used in conjunction with Setseal 6 polymer curing membrane/sealer/hardener.

## Method of Use

### Base Concrete

The base concrete should be a minimum grade C30/37 with a cement content no less than 325 kg/m<sup>3</sup> and should be placed in accordance with good concrete practice. The water: cement ratio should be kept to the minimum needed to produce a fully compacted concrete without excess surface water. Should free water be present at the surface this should be allowed to evaporate or brushed away, before the application of TIBMIX 500.

### Application

Broadcast the TIBMIX 500 evenly over the surface of the base concrete. Where manual trowelling is involved, application in two stages is recommended.

The first stage should be apply two thirds of the coverage rate of TIBMIX 500 following removal or evaporation of surface bleed water. Immediately after this stage TIBMIX 500 should be trowelled in, either by hand or using a power float (pan fitted to blades).

Stage two is to apply the remainder of the coverage rate and to repeat trowelling. For large floor constructions TIBMIX 500 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.

### Technical Properties:

Abrasion resistance: EN 13892-4	AR0,5 (Special Class)
Compressive strength*: EN 13892-2	> 80.0 N/mm <sup>2</sup> 28 days
Flexural strength*: EN 13892-2	> 8.0 N/mm <sup>2</sup> 28 days
Slip resistance: EN 13036-4	83 Dry 39 Wet
Designation: EN 13813	CT-C80-F10-AR0,5
BRE Screed test:	0.6mm

\* Using a water addition 2.2 litres / 25 kg TIBMIX 500.

### Coverage

Recommended application rate of 3 - 5 kg/m<sup>2</sup> depending on application.

### Cleaning

All tools and equipment should be rinsed with water immediately after use and then dried.

### Packaging

TIBMIX 500 is available in 25 kg bags.

### Curing, hardening, sealing

After final trowelling is complete, Setseal 6 should be applied by spray taking care to avoid any puddling.

The use of polythene sheeting is not recommended as this can cause blooming of the surface, particularly with coloured TIBMIX 500.

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## Joints

Floor expansion joints should be formed using a polyurethane joint sealant.

Saw cut contraction joints may be filled with a polyurethane sealant Flexseal PU440 or if a harder seal is required, Quickmast 104 flexible epoxy resin.

## Storage

Store under cover, in unopened bags clean of the ground in cool dry conditions, protected from frost and excessive draught.

When stored as above and used within 12 months of the date shown on the packaging, the activity of the reducing agent added will be maintained and the mixed product will contain no more than 0.0002% (2ppm) soluble chromium (VI) on the total dry weight of the cement.

TIBMIX 500 has shelf life 12 months in unopened bags stored under good conditions.

## Cautions

Application of both the TIBMIX 500 and the Setseal 6 should be carried out in as clean and protected an environment as possible.

## Health and Safety

Consult the appropriate Safety Data sheet prior to using TIBMIX 500.

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- ▲ Grouts and chemical fixing.
- ▲ Concrete repair.
- ▲ Industrial flooring.
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### Note:

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