

Monoshake

Pre-blended quartz dry shake floor topping



Description

Monoshake is a quartz based, chemically inert, dry shake floor topping for monolithic floors. The product contains a blend of specially graded aggregates, additives and Ordinary Cements.

When trowelled into freshly laid concrete, Monoshake produces a dense, tough, abrasion resistant surface suitable for most industrial floors.

Applications

- ▲ Parking areas.
- ▲ Warehouses.
- ▲ Workshops.
- ▲ Service stations.
- ▲ Aircraft hangars.

Advantages

- ▲ Highly resistant to wearing and abrasion.
- ▲ Reduces surface dust.
- ▲ Premixed, ready to use.
- ▲ Can be applied by hand, or using automatic spreading equipment.
- ▲ Coloured versions contain a high quality, durable pigment.

Standards

Monoshake complies with EN 13813, Class CT-C80-F7-AR1.

Base Concrete Limitations

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

- ▲ The compressive strength is recommended to be higher than 25 MPa.
- ▲ W/C ratio should be at a minimum required value to achieve fully compacted concrete.
- ▲ Concrete slump should be kept between 75 mm and 120 mm.
- ▲ Cement content should be no less than 300 kg/m³.
- ▲ Proper concrete compaction and leveling is a must.
- ▲ Should free water be present at the surface this should be allowed to evaporate or brushed away before the application of Monoshake.

Technical Properties @25 °C:

Flexural strength: BS EN 13892-2	> 7 MPa @ 28 days
Compressive strength: BS EN 13892-2 (mortar consistency)	> 80 MPa @ 28 days
Monoshake aggregates hardness:	7 (Mohs scale)
Colour:	Grey, buff, green & brick red
VOC: ASTM D2369	< 1 g/ltr
Taber abrasion: ASTM D4060 fitted with H22 wheel, 1000 g/1000 cycle	1070 milligram
*Abrasion resistance: EN 13892 & BS 8204, Part 2	Class AR1 high abrasion resistance (less than 0.1 mm water depth)

**Test was conducted based on a coverage rate of 5 kg Monoshake/ m².*

Method of Use

- ▲ The right time to spread the Monoshake on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm.
- ▲ Broadcast the Monoshake 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 Monoshake, and allow the material to absorb moisture from concrete. When a uniform dark colour appears, indicating that the material is wet, Monoshake 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 Monoshake can be spread and trowelled satisfactorily in one stage by mechanical means.
- ▲ Care must be taken not to wet the application of Monoshake 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.



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Timing of Application

Timing of Monoshake application is critical. Adequate machinery, labour and material should be available to complete the whole area while sufficient concrete moisture is available. Applying Monoshake before or after the proper application time can seriously affect the quality of the concrete floor finish.

Application Rate

Recommended application rates are as follows:

Normal rate 3 - 5 kg/m².

Heavy duty floors 5 - 7 kg/m².

Cleaning

All equipments and tools should be rinsed with water immediately after use.

Packaging

Monoshake is available in 25 kg bags.

Storage

Monoshake has a shelf life of 12 months from date of manufacture if stored at dry conditions and temperatures between 2°C and 50°C.

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

Cautions

Health and Safety

As Monoshake contains Portland cement, Monoshake 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 advise if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Monoshake is nonflammable.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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