

Monoshake ST

Pre-blended synthetic dry shake floor topping for concrete floors



DESCRIPTION

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

When trowelled into freshly laid concrete, Monoshake ST produces a dense, tough, highly 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.

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 110 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 ST.

STANDARDS

Monoshake ST complies with EN 13813, Class CT-C70-F10-AR1-A3.

TECHNICAL PROPERTIES @25°C:

Colour:	Grey and available in many different colours
Compressive strength: BS EN 13892-2 (mortar consistency)	≥ 70 MPa @ 28 days
Flexural strength: BS EN 13892-2	≥ 10 MPa @ 28 days
Monoshake aggregates hardness:	7 (Mohs scale)
Maximum aggregate size:	3 mm
BCA wear resistance*: EN 13892-4	Class AR1 (≤ 0.1 mm)
Böhme wear resistance*: EN 13892-3	Class A3 (≤ 3 cm ³ / 50 cm ²)
Taber abrasion*: EN ISO 5470-1:2017 1000 cycles, 1000 g, #500 grit	1000 milligram
VOC: ASTM D2369	< 5 g/ltr

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

METHOD OF USE

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

Don Construction Products

Str. Dârzei II, no. 235D, Village Mănăstirea
Crevedia, County Dâmbovița
Romania

info.romania@dcp-int.com; officeromania@dcp-int.com
www.dcp-int.com





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TIMING OF APPLICATION

Timing of Monoshake ST application is critical. Adequate machinery, labour and material should be available to complete the whole area while sufficient concrete moisture is available.

Applying Monoshake ST 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 ST is available in 25 kg bags.

STORAGE

Monoshake ST has a shelf life of 12 months from the date of manufacture if stored in dry conditions and temperatures between 2°C and 35°C.

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

CAUTIONS

HEALTH AND SAFETY

As Monoshake ST contains Portland cement, Monoshake ST 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

Monoshake ST is nonflammable.

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

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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