

DECKTOP 540



High abrasion resistant dry shake floor hardener

DESCRIPTION

DECKTOP 540 is a pre-mixed, non rusting floor hardener used to form monolithic hardened concrete floors. it provides a superior abrasion resistant surface and inhibits dust formation

When trowelled into freshly laid concrete, Decktop 540 produces a dense, tough, abrasion resistant surface suitable for industrial floors.

APPLICATIONS

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

ADVANTAGES

- High resistance to wearing and abrasion.
- Easy to apply.
- Provides monolithic floor.
- Non metallic floor hardener.
- Premixed, ready to use.
- Reduces surface dust.
- Maintains the anti-static characteristics of the concrete surface.
- Compatible with concrete mixes regardless the type of water reducing admixture used (PC, Ligno or SNF).

STANDARDS

Monoshake complies with EN 13813, Class CT-C70-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 Decktop 540.

TECHNICAL PROPERTIES

Colour: Grey

Flexural strength:

BS EN 13892-2 > 7 MPa @ 28 days

Compressive strength*:

BS EN 13892-2

(mortar consistency)

> 75 MPa @ 28 days

Monoshake aggregates

hardness: 7 (Mohs scale)

Taber abrasion*:

ASTM D4060

H22 wheel, 1000 g/100

cycles ≤ 500 milligram

Abrasion resistance:**

EN 13892-4 AR1

VOC:ASTM D2369 < 10 g/ltr

***Test was conducted with**

W/P ratio = 0.11, under wet curing conditions.

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

METHOD OF USE

» The right time to spread the Decktop 540 on concrete surface is when light foot traffic leaves an im-print 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.

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

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: available in 25 kg bags.

STORAGE: **DECKTOP 540** 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, contact STARKE Technical Department for advice.

CAUTIONS

Health and Safety

As DECKTOP 540 contains Portland cement, 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: **DECKTOP 540** is nonflammable.

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Important note :

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Starke Polymer Ltd
Plot 158, kampala uganda
Construction Chemicals

Tel + 256 709 704 421
Tel + 256 792 171 023

Email: info@starkepolymers.com
[www. Starke polymers.com](http://www.Starkepolymers.com)