

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 Portland Cements.

Monoshake can also be used to suppress steel fibres in concrete floors. When trowelled into freshly laid concrete, Monoshake produces a dense, tough, abrasion resistant surface suitable for industrial floors.

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

APPLICATIONS

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

ADVANTAGES

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

METHOD OF USE

SUBSTRATE PREPARATION

The base concrete should be a minimum grade C30/37 with a cement content no less than 325 kg/m³ 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 Monoshake.

TECHNICAL PROPERTIES:

Compressive strength*: EN 13892-2	> 70 N/mm ² @ 28 days
Flexural strength*: EN 13892-2	> 7 N/mm ² @ 28 days
Taber abrasion*: ASTM D4060 H22 wheel, 1000g, 100 cycles	≤ 500 milligram
Abrasion resistance**: EN 13892-4	AR1
Slip resistance: EN 13036-4	Dry > 85 Wet > 35

**Test was conducted with W/P ratio = 0.11, under wet curing conditions.*

***Test was conducted based on a coverage rate of 6 kg/m².*

APPLICATION

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 following removal or evaporation of surface bleed water. Immediately after this stage Monoshake 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 Monoshake 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.



Monoshake®

CURING, HARDENING & SEALING

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 Monoshake.

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 resin may be used.

WORKING CONDITIONS

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

CLEANING

All tools and equipment should be cleaned immediately after use while still damp with clean cold water.

PACKAGING

Monoshake is available in 25 kg bags.

COVERAGE

Recommended application rates are as follows:

- » Normal rate 3 - 5 kg/m².
- » Heavy duty floors 5 - 7 kg/m².

STORAGE

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

When stored as above, and used within 9 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.

If these conditions are exceeded, contact DCP Technical Department for advice.

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 advice if necessary.

For further information, refer to the Material Safety Data Sheet.

FIRE

Monoshake is nonflammable.

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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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