

Monotop

Dry shake monolithic concrete floor hardener for stamped concrete



DESCRIPTION

Monotop is a premixed dry shake floor hardener applied over freshly laid concrete. Monotop is formulated from selected graded aggregate, cement and special additives to provide a non-metallic, non-oxidising, dense and smooth surface with high abrasion and wear resistance.

APPLICATIONS

- » Parking areas.
- » Warehouses.
- » Side walks.
- » Patios and garden landscaping.

ADVANTAGES

- » Good resistance to wearing and abrasion.
- » Easy to apply.
- » Provides monolithic floor.
- » Premixed, ready to use.
- » U.V. Stable pigments.
- » Available in wide range of colours.
- » Decorative finish as a finished stamped concrete floor.

STANDARDS

Monotop complies with EN 13813, Class CT-C50-F7-AR6.

CONCRETE LIMITATIONS

The following concrete properties should be achieved to obtain hard concrete surface with high abrasion resistance:

- » W/C ratio should be less than 0.5. Flocrete water reducing admixtures are highly recommended to achieve such water cement ratio.
- » Recommended concrete slump between 75 mm to 120 mm.
- » Cement content should be more than 300 kg/m³.
- » Proper concrete compaction and leveling is a must.
- » For concrete subject to freeze-thaw cycles, an air-entraining admixture should be used.
- » Polypropylene fibre "PP Fiber" 12 mm length should be added to the concrete mix at the rate of 0.6 kg/m³ of concrete to minimize shrinkage cracks.

METHOD OF USE

- » All form work should be erected properly to the correct levels prior to placing the concrete.
- » The right time to spread the Monotop on concrete surface is when light foot traffic leaves an imprint of about 3 - 6 mm.
- » Any bleed water still present should be removed.

TECHNICAL PROPERTIES. W/P = 0.15:

Colour:	Comes in different selected colours
Maximum wear depth: BS EN 13892-4	0.6 mm
Flexural strength: BS EN 13892-2	≥ 8 MPa
Compressive strength: BS EN 13892-2	≥ 55 MPa

The above data was developed for the Monotop/water mortar mix, under controlled laboratory conditions. Properties in the field may vary. Expect some variations from these results, depending on jobsite and test conditions.

- » The concrete surfaces should be floated using a wood or magnesium "Bull-float" prior to the application of the colour hardener "Monotop".
- » Spread two third of the required quantity of Monotop onto the concrete surface and allow the material to absorb moisture from concrete. When the slab has an even, solid colour appearance, the surface should be floated using magnesium "Bull-float".
- » The remaining quantity of Monotop is applied evenly onto the surface and shall be floated as above.
- » Using a "Fresno" or blue steel trowel, the surface should be trowelled well to eliminate any float marks and to achieve the final finish.
- » Prior to imprinting, the trowelled slab should be covered with powder release agent "Monorelease" at a rate of 5 to 7 m²/kg.
- » The crew should be equipped with a minimum of 6 or more mats and a floppy. Adequate and enough hand tools should be available to complete the whole area.
- » Using a reference line, begin by placing the first mats using this line and move across the slab. When stamping, the mats should be tamped using a special pounder without delay.
- » The finished slab should be left for a minimum of 2 – 3 days to set.
- » All excess powder release agent "Monorelease" should be brushed off and then cleaned using pressurized water.
- » The slab must be completely dry before the sealer coat is applied.
- » The surface must be sealed using Monoseal. The first coat should be applied at a rate of 6 – 10 m²/Ltr. A second coat can be applied if required after the first coat has dried.



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APPLICATION RATE

Materials should be applied at the following rates:

Monotop: 3 – 5 kg/m², depending on colour.

Monorelease: 5 – 7 m²/kg.

Monoseal: 6 -10 m²/litre, depending on concrete porosity.

CLEANING

Monotop and Monorelease: All tools should be cleaned immediately after finishing with fresh water.

Monoseal: Tools and equipment may be cleaned with DCP Solvent. Dried Monoseal should be removed mechanically.

PACKAGING

Monotop is available in 25 kg bags.

Monorelease is available in 10 kg bags.

Monoseal is available in 5 and 25 litre pails.

STORAGE

Monotop and Monorelease have a shelf life of 12 months from date of manufacture if stored in dry conditions and temperatures between 2°C and 50°C.

Monoseal should be stored in a dry area out of direct sunlight between 5°C and 35°C.

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

CAUTIONS

HEALTH AND SAFETY

As Materials contain Portland cement, Monotop 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 Monoseal refer to separate Technical Data Sheet.

For further information refer to the Material Safety Data Sheet.

FIRE

Monotop and Monorelease are nonflammable. Monoseal and DCP Solvent are flammable. Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

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A wide range of construction chemical products are manufactured by DCP which include:

- » 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:

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.