

RoK Unitop CH (formerly Dr.Fixit Unitop CH 301)

DRY SHAKE CONCRETE SURFACE FLOOR HARDENER



Description

RoK Unitop CH is a dry shake monolithic surface hardening compound for fresh concrete floors. RoK Unitop CH is a pre-mixed surface hardener containing hydraulic binder and graded high impact resistant and abrasion resistant aggregates.

Typical Applications

RoK Unitop CH provides a highly abrasion resistant surface to fresh concrete floors. It is propagated by dry shake method. It bonds monolithically to the base concrete and provides a hard wear resistant surface. It is ideally suited for all industrial areas subjected to heavy traffic.

- Power stations
- Heavy industries
- Distillation plants
- Desalination plants
- Laboratories
- Abattoirs
- Warehouse floors, loading bays and workshops

Features

- Pre-mixed and easy to use
- Economical and has excellent mechanical strength
- Wear and tear, abrasion and impact resistance are superior to normal concrete surface
- No additives required
- Forms a monolithic bonded surface with fresh concrete base
- Non-dusting
- Non-ferrous aggregate

Note

Resistance

- RoK Unitop CH exhibits 82% greater abrasion resistance than control concrete of W/C ratio 0.5.
- At water contents equivalent to those obtained in practical applications, the typical 28 day compressive strength of RoK Unitop CH cubes is 60 N/mm².

Available

RoK Unitop CH is available in natural cement grey colour as standard. Special colours, including brick red and desired colours can be produced on request for large orders.

Base Concrete

The base concrete should have minimum cement content of 320 kg/m³. The concrete mix should be designed to minimize segregation and control bleeding, although some limited bleed is desirable to ensure sufficient moisture available to wet the UniTop CH when it is first applied

Method of Application

- RoK Unitop CH should be applied at an even application rate of 5 kg/m² or 7kg/m² It is recommended that the floor be marked into bays of known areas. Sufficient materials should then be laid out to meet the recommended spread rate.
- RoK Unitop CH is ideally applied to a surface, which is neither too wet nor dry. Recommended time period is 30-40 minutes at the temperature of 35-40 °C, after the base concrete has hardened enough to leave footprints.

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- Application of RoK Unitop CH should begin without delay when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3 - 6 mm concrete should have a wet sheen.
- On large floors it will be necessary to work progressively behind the laying team to ensure application at the correct time.

ROK UNITOP CH is applied in two layers.

- Normally the first application is applied at an even rate of 3 kg/m² onto the concrete surface. When the material becomes uniformly dark by the absorption of moisture from the base concrete, this first application can be floated. Wooden floats or, on large areas, a power float, may be used. It is important, however, that the surface is not overworked.
- Immediately after floating as above, the remaining 2 kg/m² of RoK Unitop CH is applied evenly over the surface at right angles to the first. Again, when moisture has been absorbed, the surface can be floated in the same way as before.

Final finishing of the floor can be done with a power float when the floor has sufficiently stiffened to withstand the mechanical force.

Bay edges

- Edges are likely to suffer particularly heavy wear or impact and where saw-cut transverse control joints are to be located, it is desirable to give these areas additional protection, by one of the following methods prior to full treatment of the entire surface.
- Immediately after levelling the freshly placed concrete, RoK Unitop CH should be sprinkled by hand at a rate of 0.5 kg/lin. m (5 kg/m²) in a strip 100 mm wide along the bay edge and hard-trowel led into the surface.

CURING

- Special care must be taken for the concrete curing. This can be done by either covering with polyethylene sheets or by the application of curing compound.

Specification Compliance

Meets the requirement of ASTM C944, BS 1881 Part 116.

Precautions & Limitations

- Spread rate should be as per recommendation
- Judgement of application time on wet concrete should be as specified for best results.

TECHNICAL DATA

Colours	Cement Grey (Special colours are available on request)
Hardness (ASTM C 944)	7 (M.O.H.S)
Abrasion resistance	@5kg/m ² rate of application exhibited >300 % greater abrasion resistance than control concrete.
Chemical Resistance	Mineral oils, mild acids, salts and motor oils etc.
Coverage	Light and medium duty 5 kg/m ² . Heavy-duty 7 kg/m ² .
Packaging	25 kg bag

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Storage

When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

Health and safety Precautions

Cementitious mortars, when mixed with water or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes.

Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provide additional skin protection. In case of contact with skin, rinse with plenty of clean water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

Please see MSDS for further information.

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Pidilite MEA Chemicals LLC

PO Box 120657

Dubai, United Arab Emirates

Tel: +971 4 884 9880

Fax: +971 4 884 9879

Web: www.pidilitemea.com

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