

BUILDING CHEMICALS SPECIALISTS

UNIROC TOP

‘Dry Shake’ floor hardener for new concrete floors

USES

UNIROC TOP provides a highly abrasion resistant surface to fresh concrete floors by the ‘dry shake’ method, which ensures a monolithic bond to the base concrete. It is ideally suited for all industrial areas, which are subjected to heavy traffic, e.g. warehouse floors, loading bays, workshops, heavy industry, and power stations.

PRODUCT DESCRIPTION

UNIROC TOP surface hardening compound is a factory-blended powder, which is ready to use on site. It consists of special hard wearing aggregates selected for their physical properties of abrasion and wear resistance, Portland cement and special additives to improve workability. **UNIROC TOP** is easy to trowel into the surface of fresh, wet concrete and it cures to provide a dense, non-porous surface, which is extremely hardwearing and abrasion resistant. The monolithic nature of **UNIROC TOP** ensures that problems normally associated with ‘thin’ screeds e.g. curling, shrinkage, cracking etc. are completely overcome.

Advantages

- Non-metallic aggregate – will not rust when wet.
- Non-dusting.
- Anti-slip.
- Provides a hard, abrasion resistant surface.
- Supplied ready to use – no additives required.

PROPERTIES

At water contents equivalent to those obtained in practical applications, the following results were obtained:

Compressive strength:	62 N/mm² @ 28 days
Hardness (Mohs scale):	7.0
Abrasion Resistance:	225% of normal concrete

APPLICATION

Preparation

UNIROC TOP should be applied at an even application rate of 3.0 – 5.0 kg/m². It is recommended that the floor is marked into bays of known area. Sufficient material should then be laid out to meet the recommended spread rate.

Application of **UNIROC TOP** should begin without delay when the base concrete has stiffened to the point when light foot traffic leaves an imprint of about 3 to 6 mm. Any bleed water should now have evaporated, but the concrete should have a wet sheen.

UNIROC TOP is applied in two stages.

- (a) The first application is made 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, the first application can be floated. Wooden floats or, on large areas, a power float disc may be used. The surface should not be overworked however.
- (b) Immediately after floating, the remaining **2 kg/m²** of **UNIROC TOP** 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 using the blades of a power float can be carried out when the floor has been stiffened sufficiently so that damage will not be caused.

Curing

Proper curing of concrete floors treated with **UNIROC TOP** is essential to the physical properties of the finished floor. The most effective method of curing is to use liquid curing membrane, which should be sprayed on to the finished floor 10 minutes after the power floating operation has been completed.

The use of polythene sheeting, wet hessian or damp sand is not recommended. The use of salt water or brackish water should not be considered under any circumstances.

PACKING AND ESTIMATING

UNIROC TOP is supplied in **25-kg bags**. The application rate should be **3.0 – 5.0 kg/m²**. Applications should comply with the recommended rate to obtain the performance characteristics described above. Any reduction may have detrimental effect on the finished floor's abrasion resistance.

STORAGE

UNIROC TOP has a shelf life of 12 months when kept in a dry store in sealed bags.

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