

Cicofloor® Hardtop

Non-Metallic Shake-on Floor Hardener

DESCRIPTION

Cicofloor® Hardtop is a mixture of silica sand and finely graded non-metallic aggregates that equal to or exceed 7 on the Mohs scale blended with a special plasticizer and cement. It cures to provide a dense, less porous surface that is hard wearing and abrasion resistant.

USES

- Parking areas flooring.
- Stores, warehouses, showrooms, and passages.
- Airports runways.
- Industrial and high wearing exposed floors.
- UV exposed flooring hardening in general.

ADVANTAGES

- Obtains high abrasion resistance for the concrete surface.
- Improves the impermeability of the concrete surface.
- Doesn't make a separate layer but interferes inside the top concrete surface.
- Increases the ultimate strength of the top layer of the concrete.
- Compatible with all types of cement and cement consisting of clinker, blast furnace slag, or micro silica.
- Very easy to use; one component and no mixing needed.

PACKAGING

25 kg bags

SHELF LIFE & STORAGE

12 months storage life if stored in its original unopened containers under a dry and shaded place in a temperature from 2°C to 55°C.

TECHNICAL PROPERTIES

Form	Powder
Color	Grey (Standard)
Abrasion	
Water absorption	
Compressive strength	
Coverage	
Medium traffic	4-5 Kg/m ²
Heavy traffic & colored floors	6-7 Kg/m ²

APPLICATION INSTRUCTIONS

Surface Preparation

The following recommendations should be followed when applying Cicofloor® HardTop:

- Apply Cicofloor® Hardtop on well designed, non-air entrained concrete. The base concrete should have a minimum cement content of 300 kg/m³. If unusual conditions exist such as direct hot sun, strong winds, or low humidity, care should be taken to protect the slab during dry shake placement.
- Assure the right estimated amount of floor hardener required for the available floor pouring and then stack the correct number of bags at each bay to be spread in one day. This is important because it gives the finishers a measure for applying the right amount of material.

After the above conditions have been met, proceed with work in the following manner:

- Use a bull float to level the surface and remove any bleed water by dragging the surface with burlap, rubber edge, or a sponge gently.
- After the concrete has stiffened to the point of supporting floating operations, open the surface by hand floating or power floating. Normally, a finisher's footprint of 6-10 mm in depth indicates that the slab is ready for power floating.

Cicofloor®Hardtop



QUALITY GUARANTEE

- For best results and uniformity of thickness, Cicofloor®Hardtop should be applied in two shakes using approximately half to two-thirds of the total amount for the first shake.
- Immediately after the surface has been panned (taper) by floating, apply the first shake in a uniform application by hand, spreader, or other suitable method.
- Allow the first shake to remain unworked on the surface until it has absorbed moisture and achieved a uniform dark color. Then, float with a hand or power float.
- Immediately after that, apply the second shake placing the rest of the material on the edges of the slab first and float like the first shake.

Trowelling

Flat steel trowelling followed by raised steel trowelling is required for typical finishing. The trowelling operation is similar to finishing a normal industrial floor.

Finishing

Finish the dry shake using a power floating machine to get the maximum abrasion resistance. Do not add additional water to the surface during the finishing operation.

HARDENING CRITERIA

The criteria for using Cicofloor®Hardtop depend on two concepts:

- Decreasing the water/cement ratio in the upper portion of the flooring concrete which is subjected to be partially mixed with the hardener. The time of spreading the hardener is very sensitive and important to make sure that it is well penetrated within only the upper 3-5 mm of the concrete layer, not more.

- The high crushing and abrasion resistance of the Cicofloor®Hardtop aggregates increases the entire abrasion and the scratch resistance for the hardened concrete surface.
- The fine grading of Cicofloor®Hardtop helps seal the concrete pores and compensates for the absence of some of the concrete particles due to compaction.

This process is responsible for increasing the compressive strength of the concrete upper layer to more than double the rest of the floor concrete (based on the consumption rate of 5 kg/m²).

CLEANING

Use water to clean all tools and equipment.

For more details, please review our Technical Guide for Flooring System

PRECAUTIONS

Health And Safety

Cicofloor®Hardtop is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles should be worn. Splashes on the skin should be removed with water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

TECHNICAL SUPPORT

CIC provides on-site assistance, as well as consulting services on projects when requested. Technical data sheets on other CIC products and guidance on their use are available on request.



Warranty

CIC products are guaranteed against defective materials and manufacture and sold subject to CIC's standard terms and conditions of sale. Whilst CIC endeavors to ensure that any advice, information or recommendation given is correct, the company cannot accept any liability either directly or indirectly arising from the use of its products. User of the product must test the product's suitability for the intended application and purpose, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. Our Products are in continuous development and CIC reserves the right to change the product without prior notice.

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