

CIKOfloor Emeritop

Non oxidizing Emery based Monolithic dry shake floor hardener

Description

CIKOfloor Emeritop is a dry shake floor hardener that provides a hard wearing surface and high abrasion resistance for concrete floors. It forms a monolithic bond with fresh concrete. The monolithic part of applied CIKOfloor Emeritop will minimize problems such as curling, shrinkage and cracking.

CIKOfloor Emeritop is a blend of selected cement type, emery aggregates, wetting agents and other additives that provide a surface much denser and stronger than concrete.

Properties

- Monolithic system with non-oxidizing properties.
- Increase in abrasion and impact resistance of floor concrete.
- Reduction in permeability of water, porosity and corrosive chemicals.
- Increases the durability of concrete floor.
- Antiskid finish.
- Available in wide range of colours.
- Suitable for all kinds of commercial and industrial floors
- Rust free, due to the incorporation of non-metallic aggregates.

Application area

CIKOfloor Emeritop is suitable for all kinds of industrial and commercial floors subjected to heavy traffic. Considering its basic properties such as superior abrasion resistance and minimal dusting, it can be used in:

- Loading bays/platforms and parking areas, heavy duty industrial floors.
- Power and distillation plants
- Aircraft hangars and helipad
- Workshops and garages

Physical properties

Form	Powder
Colour	Cement Grey (standard)/ wide range of colours
Hardness (Aggregate)	≥8 Mohs scale
Compressive Strength (mortar consistency)	≥70 N/mm ² (28 days)
Flexural Strength (mortar consistency)	≥10 N/mm ² (28 days)
Taber Abrasion ASTM C1353	Max. 1.34 g loss

Coverage

The recommended application rates are as follows.

Medium duty traffic	3 to 5kg/m ²
Heavy duty traffic	5 to 7kg/m ²

Application instructions

The designed base concrete should have a minimum cement content of 300 kg/m³ and water-cement ratio around 0.42 to 0.55 and ideal slump of 75 to 80mm while compressive strength is not less than 30 N/mm². CIKO range of admixtures can be used to reduce/maintain the required water-cement ratio.

Application method

The concrete should be placed and levelled as per standard practices. Application of CIKOfloor Emeritop should start when the base concrete has stiffened to the point when the foot traffic leaves an impression of 3 to 6 mm. Normally, this stage will be achieved in 1 to 2 hours depending on the ambient conditions and the type of concrete used [basically the type of admixture incorporated into the concrete mix].

CIKOfloor Emeritop should be broadcasted evenly by hand at the rate of 3 to 5 kg for medium traffic and 5 to 7kg for heavy traffic.

It is always recommended to apply CIKOfloor Emeritop in two layers. The first application should be done by

broadcasting CIKOfloor Emeritop uniformly over the wet concrete surface with 2/3rd of the required quantity. Finishing should be done with a wooden or power float.

Immediately after floating the concrete surface, the second application should be carried out in cross direction to the previous using the remaining 1/3rd material and must be well floated.

For additional reinforced areas, immediately after levelling the freshly placed concrete, remove a wedge of the concrete 10 mm deep at the slab edge and tapered up to slab level. Replace with a very stiff paste of CIKOfloor Emeritop mixed thoroughly with a small amount of water. Ensure it is fully compacted on the base concrete. These reinforced areas will be further strengthened when subsequent full treatment is applied.

NOTE: Right judgement on the application time over wet concrete is very important to attain optimum performance of CIKOfloor Emeritop.

Curing

The finished floor should be cured as per standard curing procedures. In case of membrane curing system, immediately after the final finish, CIKOcure AC can be applied on the surface preventing mar and allow drying.

Packaging

CIKOfloor Emeritop is available in 25kg moisture resistant bags.

Shelf life

CIKOfloor Emeritop has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOfloor Emeritop should be stored under enclosed shaded area.

Precautions

- The air entrainment of the base concrete should not be more than 3%.
- Do not use as a chemical resistant topping.

Health & safety

Use standard dust mask to avoid inhalation of dust. Powder when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For further technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries