

# Dry-shake Monolithic Cementitious Hardener

## ChemHard C<sup>®</sup>



### Description

**ChemHard C<sup>®</sup>** is quality controlled, factory blended powder which are ready to use on site it contain special hardwearing aggregates which have been selected for abrasion and wear resistant properties as well as shape and size.

### Advantages

- Provides abrasion resistant floors of high impact resistance.
- Ready to use.
- Available in various colors.
- Hard, dense surface monolithically bonded to fresh concrete.
- Good resistance to oils and grease by reducing surface porosity.
- Non rust characteristics when wet.
- Low cost and minimum maintenance.

### Uses

**ChemHard C<sup>®</sup>** is ideal to be used for heavy-duty areas indoors and outdoors for it is ideal for use in warehouses, factories, car parks, driving and loading ramps, garages, mechanical /power rooms, wet rooms and outdoor surfaces of all kinds, etc.

### Coverage

Coverage requirements vary according to intended use

Rates:

Light duty	2 - 3 Kg/m <sup>2</sup>
Medium duty	4 - 5 Kg/m <sup>2</sup>
Heavy duty	6 - 7 Kg/m <sup>2</sup>



### Technical Properties

Phase	Powder
Colour	Gray
Density	1.68 kg/L + 0.05
Compressive Strength	77 N/mm <sup>2</sup>
Tensile Strength	> 1.5 N/mm <sup>2</sup>
Hard dry of service	24 hour
Full cure	7 days

### Standards Compliance

- ASTM C 944

### Application Instructions

#### Concrete slab properties:

- The base concrete should have a minimum cement content of 300 kg/m<sup>3</sup>.
- The concrete mix should be designed to minimize segregation and bleeding.

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### Application:

- Do not open the package before pouring concrete to avoid effect of moisture.
- For mechanical application with automatic spreader and laser screed, the spreading can start almost immediately after the concrete has been leveled to allow for the hydration of the **ChemHard C<sup>®</sup>**.
- Compaction with the trowel can start as soon as the weight of the power trowels is supported by the concrete.
- For manual application, **ChemHard C<sup>®</sup>** should be spread once the concrete can be stepped on, without leaving a print deeper than 3 - 5 mm.
- Apply the suitable quantity for one meter square according to the rates of uses.
- Wait until the **ChemHard C<sup>®</sup>** has been evenly moisten by the water in the concrete.
- Use mechanical trowel machine to finish the surface after the initial setting time of the concrete.

### Packaging

**ChemHard C<sup>®</sup>** is supplied in 25 Kg Pack.

### Curing

Treat concrete floor with **Chemcure 1<sup>®</sup>** curing compounds or any approved curing methods.

### Shelf Life

Shelf life is up to 12 months when stored as per recommendations.

### Warehouse Conditions

**ChemHard C<sup>®</sup>** store in normal temperature and closed shaded dry area in undamaged original packing.

### Quality

All products manufactured by iChemEG, or imported from iChemEG affiliate companies worldwide, are manufactured to procedures certified to conform to the quality, environment, health & safety management systems.

### Health & safety

- **ChemHard C<sup>®</sup>** is not flammable or health hazard material.
- PPE in accordance with the health and safety rules should be used during the materials application.
- For irritant effects of the non-cured material, avoid contact with skin and eyes during storage and application.
- If the contamination occurs, wash the contaminated part by soap and plenty of water. Urgently contact to nearest hospital.
- Food and drink should be kept outside the application areas and should be kept in closed area
- Residues of material must be removed according to local regulations.
- Fully cured material can be disposed of as household waste under agreement with the responsible local authorities

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