

CEMTEC FLOORHARD

CHEMICAL HARDENER AND DUSTPROOFER FOR CONCRETE

CEMTEC FLOORHARD is a magnesium silicofluoride that reacts chemically with the free lime and calcium salts in hardened concrete to make a more dense and durable surface. It will effectively penetrate a concrete surface and make it hard, free from dusting and highly resistant to corrosion and abrasion.

PRIMARY APPLICATIONS

- Horizontal and vertical surfaces
- Schools
- Industrial floors
- Commercial buildings
- Home basements
- Warehouse flooring

FEATURES / BENEFITS

- Hardens and dustproofs concrete surfaces
- Prolongs floor life
- Resists acids, alkalies, oils and salts
- Simplifies cleaning
- Can be used without interrupting production schedules

SPECIFICATIONS / COMPLIANCES

- **CEMTEC FLOORHARD** complies with General Services Administration and U.S. Army Corps of Engineers Specifications for magnesium silicofluoride floor hardeners.

PACKAGING

CEMTEC FLOORHARD is packaged in 210 Liter drums, and 20 Liter pails.

CEMTEC FLOORHARD is a registered trademark N^o. 819,356

TECHNICAL APPLICATIONS

Typical Performance

Applications	Cure Time
Foot traffic	4-6 hours
Wheel traffic	24 hours

CEMTEC FLOORHARD helps protect concrete against the harmful effects of :

- Caustic soda
- Calcium chloride
- Sodium chloride
- Soap solutions
- Ammonium chloride
- Solvents
- Fuel oils
- Sugar solutions

COVERAGE

Extremely porous concrete will require an application rate up to 2.5 m²/liter diluted as specified in the instructions below. **CEMTEC FLOORHARD** is applied in up to three

coats as shown.

COAT

1st coat : 1 part **CEMTEC FLOORHARD** - 2 part water
2nd coat : 1 part **CEMTEC FLOORHARD** - 1 part water
3rd coat : 2 part **CEMTEC FLOORHARD** - 1 part water

DILUTION

NOTE : All three coats may not be necessary to harden the floor. If the floor should show patches of white on drying, immediately flood with water and scrub the floor with a mechanical scrubber, rinse and dry. Do not attempt further treatment.

DIRECTIONS FOR USE

Surface Preparation - The surface to be treated should be clean, free of dust, oil and paint and preferably dry. New concrete surfaces should be at least 7 days old prior to application of **CEMTEC FLOORHARD**. Membrane forming curing compounds should not be used on new concrete if **CEMTEC FLOORHARD** is to be applied.

Extremely soft and porous surfaces should be saturated with water prior to application of hardener. Six hours later, or when the surface is dry, apply the 1st coat of **CEMTEC FLOORHARD** and proceed as indicated previously. This pre-wetting concentrates the chemical in the top level of the concrete rather than deeper in the matrix. The final coat will then harden at the top surface and yield maximum wearing and resistance qualities. In some instances, or in some selected areas, a surface may require an additional application of undiluted **CEMTEC FLOORHARD** to complete hardening and dustproofing.

Mixing - **CEMTEC FLOORHARD** is easily diluted in water with mild agitation.

Placement - Flood each coat of **CEMTEC FLOORHARD** onto the surface and spread with a soft fiber broom, squeegee, or mop. Allow the solution to soak into the concrete for 10-15 minutes and redistribute any puddles that remain. Treated surfaces should be thoroughly dry before overcoating. Drying time may vary from 4-12 hours depending upon the temperature, humidity, and whether the concrete is indoors or outdoors.

As the various coats of **CEMTEC FLOORHARD** are applied, each succeeding coat will yield increased coverage because the concrete surface is in the process of hardening and becoming more dense.

After the third coat, the floor should be thoroughly flushed with water and scrubbed with a stiff broom to remove any residual material. If the floor should show patches of white upon drying, immediately flood with water and scrub the floor with a

mechanical scrubber, rinse and dry. Do not attempt further treatment.

CLEAN-UP

Clean brushes, tools, equipment and flush sprayer with potable water immediately after use.

PRECAUTIONS / LIMITATIONS

- **CEMTEC FLOORHARD** is not recommended for application to colored concrete surfaces.
- Allow the product to dry 4-6 hours before exposure to traffic.
- **CEMTEC FLOORHARD** is a water-based material and must be kept from freezing. If excess **CEMTEC FLOORHARD** is left on the concrete surface, a white residue may form and should be removed by scrubbing immediately.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.