

CEMPLATE HD

HEAVY DUTY METALLIC FLOOR HARDENER



DESCRIPTION

CEMPLATE HD is a dry shake, metallic floor hardener with cleaned and graded iron aggregate in a high strength cementitious binder. CEMPLATE HD is designed to be incorporated into fresh concrete slabs and provides a dense, tough surface capable of withstanding the abrasion and impact loading which is required of floor slabs in numerous industrial and manufacturing facilities. CEMPLATE HD has been specially formulated to be applied at heavy application rates which exceed those of standard CEMPLATE HD or other first generation metallic hardeners.

FEATURES & BENEFITS

- Provides a high strength wearing surface.
- Gives up to 8 times the abrasion resistance of plain, cured concrete.
- Iron aggregate is free of rust, oil, and non-ferrous materials.
- Dense surface resists penetration of oil, grease, and many other liquids.
- Virtually non-dusting in service.
- Easy to clean and maintain.
- Economical to own over the life of the floor.
- Can be applied at coverage rates up to 14.6 kg/m²

BASIC USES

- Industrial floors
- Warehouses
- Processing plants
- Passenger and freight terminals
- Loading docks
- Towveyors
- Distribution centers

DIRECTIONS FOR USE

The contractor and engineer are encouraged to consult and review the CMCI Bulletin "Application Instructions - Dry Shake Floor Hardeners". The document offers instructions detailing the general installation of dry shake floor hardeners.

Colored (pigmented) dry shakes require special attention for a uniform color. If the job involves placement of colored CEMPLATE HD, care should be taken with regards to the following

- Delay application of the shake as long as possible to get the maximum color saturation at the surface of the slab.
- Apply the shake as evenly as possible and in two applications for maximum uniformity.

- Do not burnish the final trowel. Best appearance is achieved by hand trowelling the final finish

Curing and Sealing

The following products are recommended for curing and sealing CEMPLATE HD. Each has its own advantages and unique properties. The individual technical data sheet for each curing and sealing product should be consulted. In case of difficulty please contact the local CMCI representative for recommendations regarding specific projects.

CURING

Solvent Based
SUPER FLOOR COAT*
KUREKOTE DR

SEALING

Solvent Based
EPOSEALER
V.O.C. Compliant
CEMTEC SIL-HARD*
CEMTEC HARD N TUFF**

* Do not use these products on colored surfaces.

** If the floor surface will later be frequently exposed to solvents, hydraulic fluid, etc., cure the floor with KUREKOTE DR applied at 9.8 m (for later removal).

Seal the floor with CEMTEC SIL-HARD or CEMTEC HARD N TUFF consult the individual product data sheets for suitability and application information.

TECHNICAL INFORMATION

Typical Engineering Data

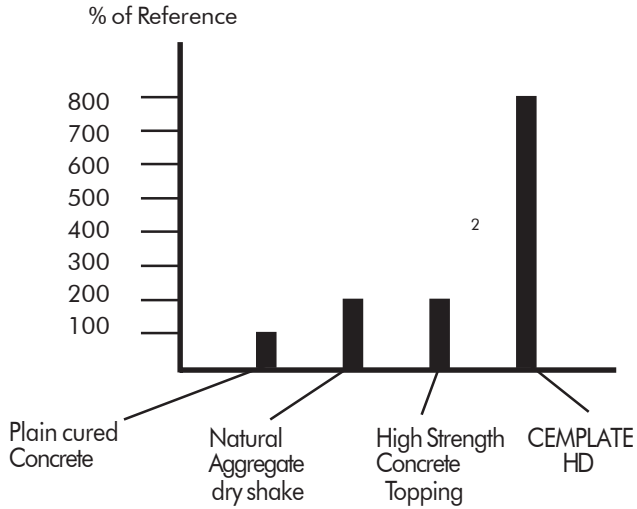
Compressive Strength

ASTM C 109 (50 mm) Cubes

Age	Strength
1 day	4,000 psi (27.6 MPa)
3 days	5,000 psi (34.5 MPa)
7 days	7,000 psi (48.3 MPa)
14 days	9,000 psi (62.1 MPa)
28 days	12,300 psi (84.0 MPa)

COVERAGE	CEMPLATE HD may be used in the range of 7.3 to 14.6 kg/m ² . The higher the application rate, the better the abrasion resistance. Greater application rates may be used following consultation with CMCI Technical Department.
PACKAGING	Available is packaged in 25 Kg bags.
COLOR	Contact CMCI tech dept.

RELATIVE ABRASION RESISTANCE ASTM C 779 MAXIMUM RANGES



CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- Proper curing and sealing is required.
- Sufficient manpower is a must approximately 1 finisher and 1 laborer per 74-93m² is necessary.
- Air-entraining admixtures may complicate finishing operations. Limit air content to 3%.
- Not recommended for floors subjected to acids or other corrosive chemicals.
- Store in a dry place.

CMCI manufactures 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 recommendations 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 warranty and or responsibility is assumed on the performance of work completion executed with use of our products.

"High Quality Construction Chemicals"
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