



Concrete Floor Technologies

Product Data Sheet/R&D/09/2017-18

Concast Densi Crete (DUST PROOFER & LIQUID DENSIFIER)

DESCRIPTION:-

Concast Densi Crete is a colorless low viscosity liquid for application to concrete. It hardens and dust proofs both the old & new concrete surfaces.

FEATURES:-

- ❖ Permanently converts free lime to hard crystals acts by chemical action- not by protective film.
- ❖ Surface Densifying – Increased resistance to rubber wheel marks.
- ❖ New or old floors can be treated.
- ❖ Easy to apply and quick drying.
- ❖ Economical to use.
- ❖ Used straight from the container.

USAGE:-

- To reduce the dusting of poorly cured concrete.
- Ramps and parking bays.
- Warehouses and car parks.
- RCC Structures as economical weather protection.
- To add life to concrete floors.
- Industrial floors & decks.

ACTION:-

By combining with the free lime produced during hydration of the cement, Concast Densi Crete forms hard insoluble crystals thus binding the particles together and sealing the surface to form a hard non- dusting surface. This chemical reaction results in a shine, and it can density the surface of cured concrete.

The products also lowers the reactivity of the surface to aggressive chemicals such as mild acids.

TYPICAL PROPERTIES:-

Aspect : clear liquid.

Improvement in abrasion resistance : >35% over control

Chloride ion content : <0.1%

Specification Clause

The liquid surface hardener com dust proofer shall be Concast Densi Crete clear non organic formulation. The product shall be capable of improving the surface abrasion resistance by at least 35% when tested as per ASTM D4060 CS17 wheel at 1000gm/ 1000cycle. The products shall effectively seal the pores of the concrete surface by hard crystalline structures while retaining the breathability of the substrate.

DIRECTIONS FOR USE.

GENERAL CLEAN UP:- Remove all dirt, dust, oil, grease, asphalt foreign matter and parting compound. Use detergents or caustics as needed.

APPLICATION:-

Agitate Concast Densi Crete in the original container before application. Apply evenly by sprayer squeeze, roller or map, porous concrete may require more than 1 coat. A second coat is recommended for most application.

FIRST COAT:-

Apply material uniformly to substrate while keeping the entire area saturated for at least 30-40 minutes to ensure maximum absorption. Redistribute as necessary to avoid surface drying during this time. Concast Densi Crete dries in about 30 minutes, depending on ambient condition. Allow 1 hour between application.

SECOND COAT:-

Apply material uniformly to substrate, keeping the entire area saturated for 5 minutes. Mop or squeegee away any excess material immediately. Avoid buildup of material in low spots. Allow surface to dry completely. Do not wash treated area for at 24 hours after application.

WATCH POINTS:-

- New concrete should be allowed to cure full (28 days minimum.)
- Hard compacted/ power floated surfaces may not have sufficient porosity to allow absorption of the Concast Densi Crete. Prior to treatment test for absorption of water. If concrete is absorbent test a small area with neat Concast Densi Crete and diluted Concast Densi Crete to see whether penetration is achieved. Then proceed accordingly.
- Before the application, the installer should prepare a jobsite sample for the acceptance of the owner.

EQUIPMENT CARE:-

All tools and equipment should be washed in clean water immediately after use.

COVERAGE:-

As porosity and texture of concrete floors and cement paving vary considerably, it is not possible to quote accurate coverage rates, but the following will provide a guide:

Tamped concrete: Approx 3-6m²/L in two coats.

Smooth concrete : Approx 5-8m²/L in two coats.

Dense power trowelled: Approx 8-10m²/L in one coat.

PACKAGING:-

Concast Densi Crete is available in 20 kg Carboy, 250 kg in PVC Drum.

STORAGE AND SHELF LIFE:-

Store under cover, out of direct sunlight and protect from extremes of temperature in tropical climates the products must be stored in an air- conditioned environment.

Shelf life is one year when stored as above.

SAFETY PRECAUTIONS

Concast Densi Crete is not a fire or health hazard spillage should be washed down immediately with cold water. In case of contact with eyes, rinse immediately with plenty of water.

TECHNICAL INFORMATION & SERVICES

For additional technical information and on-site demonstration, please contact.



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