

Dense-Crete Curing and Hardening Compound

Tech Data Bulletin 3.40 (Partial)

Hazards: Read MSDS. Wear Close toe leather or rubber shoes, gloves and eye protection. Wear respirator for mists if working in a enclosed area. Contact with eyes may damage cornea. Flush with water and see a doctor. Prolonged contact will cause skin irritation. Wash with soap and water. Use lotion. See a doctor if irritation persists. Spray mists may irritate upper respiratory system. Remove to fresh air. See a doctor if irritation persists.

USE:

1. Dusting Control.
2. Concrete curing and hardening.
3. Vertical damp proofing.(Request concentrated formula)
4. Concrete hardening and floor glazing.

Coverage:

1. 400-600 square feet per gallon diluted 1:1 with clean water.(Dusting Control)
2. 250-400 square feet per gallon. (Concrete Curing and Hardening)
- 3.150-250 square feet per gallon. (Vertical damp proofing)
4. 200-300 square feet per gallon. (Concrete hardening and Floor glazing)

Note: 10.76 square feet per square meter.

Colors: Water clear. Can be pigmented with water base tints (titanium dioxide dispersion) at very low dosage to show treated area more clearly. Also can be treated with red fugitive dyes to show treated area during application, rarely necessary.

Application:

1. Dusting control: Dilute Dense-Crete 1:1 with clean water and mix well. Use a hand pump-up sprayer with a fan tip and apply uniformly to the surface, misting ahead of final spray to break slab surface tension and then wetting thoroughly until there is a wet film on the entire surface. Let dry. If a second application is desired apply before first application is completely dry. Wet surface again to a complete coverage wet film. Let dry. Foot traffic usually in 2-4 hours, general traffic in 12 hours.

Clean up with soap and water.

2. Curing and hardening: Apply Dense-Crete undiluted as is. Using a hand pump-up sprayer with a fan tip mist the surface to break surface tension and spray to a complete wet film as you advance.

Fresh placed concrete may be treated as soon as final finish is complete and bleed water is gone. Sponge up puddles. Surface may be slippery, especially in cool damp weather.

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Existing concrete must be clean and free of curing compounds oil, grease or other stains. Hardening can take place only on clean exposed concrete. Hard troweled surfaces may not allow sufficient penetration to perform effectively.

Using a hand pump-up sprayer with a fan tip mist the surface to break surface tension and then spray to a complete wet film as spray film is advanced. Dry time will vary with weather and surface. When dry to the touch foot traffic is allowable. Allow 24 hours for open traffic. Do not do a second application unless the intention is to create a buffable glaze.

Cleanup with soap and water.

3. Damp-proofing: Request concentrated formula. Use concentrated formula on a cementitious surface that is porous such as concrete block or a formed basement wall. Hard trowel surfaces are not recommended. Surface must be free of paint, coatings, curing compounds, oils, grease, stains or other bond breakers.

Using a ¾ inch roller apply as much Dense-Crete concentrated formula as surface will hold without runs. Do not try to apply second coat. Surface can be painted, tile applied ,etc. After fully cured.

Cleanup with soap and water.

4. Concrete hardening and floor glazing: On a clean concrete surface, free of all deleterious material and bond breaking, spray apply Dense-Crete generously to a limited area that can be worked without drying too fast. Work the surface with a squeegee for up to 30 minutes to allow maximum penetration of Dense-Crete. If surface is drying too fast a fine mist of water may be applied to keep Dense-Crete workable for maximum penetration and reaction. When surface will no longer take material by working with a squeegee remove all excess material and allow to dry. Drying will vary depending on temperature and humidity but may require 12 hours or more for complete drying.

The dry surface may be burnished to a high gloss with a buffer and burnishing pad. Surface will be resistant to stains and tire marks.

Special Features

- Reacts chemically with concrete to create a permanent gel.
- Creates a low cost, Low maintenance surface.
- Use on new or old concrete, interior, exterior, vertical or horizontal surfaces.

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-Cures rapidly, may be reapplied.

-VOC compliant at 0.

-Water cleanup.

Specifications

Complies with all current federal, state, and local requirements, Including U.S. EPA, SCAQMD and OTC.

Leed Information

EQ Credit 4.2, Low emitting materials (paint & coatings).

MR Credit 5.1, regional materials, 10% or more extracted, processed and manufactured locally.

MR Credit 5.2, regional materials, 20% or more extracted, processed and manufactured locally.