

Densicoat[®]

Concrete Surface Liquid Hardener & Densifier

Uses

Densicoat is recommended for use wherever hardened, dustproofed, and improved chemical and abrasion resistant surfaces are required. Ideal applications include floors in industrial plants and warehouses, storage silos, sewage plants, chemical processing facilities, refineries, and heavy pedestrian floor traffic areas, such as civic centers, sports arenas, stadiums, hospitals, airports, and museums. Densicoat can successfully be used in conjunction with shake-on hardeners.

Advantages

- Penetrates deeply into concrete to densify and harden surfaces to help prevent entry of moisture and other foreign matter
- Dustproofs and improves chemical, petroleum, and abrasion resistance of treated surfaces
- Provides a permanent, attractive sheen with the ability to polish
- Protects against scratching or peeling
- Provides tough, protected surface that won't after-yellow, discolor or show pedestrian or vehicular traffic wear marks
- Improves light reflectance
- Ready to use from container and easy to apply
- VOC content is 0 g/L.

Description

Densicoat concrete densifier and chemical hardener compound is a ready-to-use, colorless liquid, formulated with chemically reactive raw materials to harden and dustproof concrete. When properly applied, Densicoat will offer substantial improvement in abrasion and chemical resistance and will significantly improve the durability of the concrete surface when compared to untreated concrete. As Densicoat is applied and penetrates into the concrete surface, a chemical reaction takes place, producing a byproduct that fills in the pores of the concrete. This process produces a substantially denser concrete surface with enhanced durability. In addition to the densifying and hardening action, Densicoat also solidifies the concrete, eliminating dusting and pitting.

Properties

Appearance	Colorless liquid
Specific Gravity	Approx. 1.5 gr/cm ³ @ 20°C

Instructions for use

Preparation:

- Fresh Concrete

On newly placed concrete, Densicoat can be applied, as you would a cure, after final troweling.

- Existing (Old) Concrete

Surface should be clean and structurally sound. Remove all residues, curing compounds, oils, sealers, contaminants and laitance before applying Densicoat. Fill and repair all holes, cracks and deteriorated areas that have been removed to sound concrete.

Application:

- Fresh Concrete

Apply undiluted Densicoat at approximately 5 m²/liter using a low-pressure sprayer or by spreading evenly with a soft-bristled broom. Do not allow material to puddle on the surface. No further application steps are required for fresh concrete.

- Existing (Old) Concrete

Saturate the surface with undiluted Densicoat by sprayer, squeegee or broom. Keep the surface wet with Densicoat for a minimum of 30 minutes. (A range of 30-60 minutes may be required depending on temperature and conditions.) NOTE: Pay particular attention to porous and/or dry areas. These areas must be kept wet at all times with Densicoat. Once the surface begins to gel and becomes slippery, immediately spray the surface with a light water mist. Scrub the surface with a broom or mechanical scrubber to increase the penetration of the Densicoat. Continue to work the Densicoat into the surface for another 5-10 minutes or until Densicoat becomes gelled and slippery for a second time. At this time, thoroughly flush the surface with water. During the flushing process, agitate the surface with a broom to aid in removal of the excess Densicoat. Remove all excess material with a mop or squeegee. Thoroughly squeegee the surface dry. If there are slippery patches, this is an indication that there is still excess Densicoat present. These areas should be re-flushed and squeegeed again until the entire surface is dry. (Extremely porous surfaces may require a second application.)

Burnishing:

Densicoat can be burnished to a high sheen on steel trowel concrete floors. A high-speed burnisher (2000-2200 rpm) with appropriate maintenance pad is needed.

Drying Time:

2 – 4 hours. Densicoat dries very quickly on new, virgin concrete. Drying times may be extended on existing (old) concrete due to surface conditions. Restrict foot traffic for at least four hours; 12 hours is preferable.

Cleaning:

While still wet, equipment may be cleaned quickly and easily with soap and water. Do not allow Densicoat to dry before flushing excess from surfaces.

Packaging

Densicoat is available in 30 kg containers.

Storage

When stored in the original unopened container in cool, dry conditions away from sources of heat and naked flames, Densicoat will have a shelf life of 12 months.

If stored at high temperatures and/or high humidity conditions the shelf life will be reduced.

Densicoat®

Precautions

Health and safety:

Densicoat does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn.

Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

Fire:

Densicoat is non-flammable.