

CreteDefender P2™ Spec Sheet

Product Description:

CreteDefender P2™ is a liquid concrete treatment that chemically reacts with the free lime in concrete to penetrate the pore and capillary structure. It permanently seals and protects concrete from salts, freeze/thaw cycles, sulfates, chloride ions, and water. It is not a coating, membrane, or water repellent.

When properly applied, it never needs to be re-applied during the lifetime of the concrete.

Recommended Uses:

CreteDefender P2 is effective on interior or exterior concrete, horizontal or vertical. It provides permanent protection to concrete, and is not affected by traffic, abrasion, UV exposure, or weather.

CreteDefender P2 works on portland cement-based concrete, with a minimum compressive strength of 2500psi (17 MPa), and a water to cement ratio between .36:1 and .50:1.

CreteDefender P2 will not work on non-cementitious materials, CMU's, block, brick, or other porous cementitious structures such as pervious concrete. It is not compatible with acid stained concrete.

Application:

CreteDefender P2 is applied by spraying or directly pouring onto clean, dry concrete. All sealers and coatings must be removed from the concrete in order for CreteDefender P2 to be properly applied. CreteDefender P2 must not be applied if rain is expected within 24 hours of application. Avoid contact with aluminum or glass.

Product Data

Package Sizes: 5 gallon Pail
55 gallon Drum
Weight: Pail - 54 lbs./24.5 kg
Drum - 530 lbs./240 kg
Specific Gravity: 1.41 @ 20°C
Freezing Point: 30°F/ -1°C
PH: 11.3
Protect from Freezing: Yes
VOC's: None (ASTM-D2369)
Appearance & Odor: Colorless, turbid liquid. No odor to slightly soapy odor.
Flammable: No
DOT Hazard Class: None
Hazards: Health: 2 (Acute)
Irritating to the eyes, skin, and mucous membranes. Do not ingest.
Coverage: 75 - 225 sq.ft/gallon/application
1.9 - 5.75 m²/liter/application
See Coverage notes
Drying time: 2-10 hours
Drying time between applications:
Minimum of 2 hours. Surface must be dry.
Drying time before paint/coatings: 24 hours
Initial Cure: 24 hours
Complete Cure: 75 Days
Shelf Life: 2 years

Test	Method	Result
H2O Absorption	ASTM-C642	.33% by weight
Scaling/freeze-thaw	ASTM-C672	Zero (0)
Abrasion Resistance	ASTM-C779	+45%
Freeze/thaw	ASTM-C666	99.4df
Chlorides	AASHTO-T259	.013%@25mm
Chlorides	ASTM-C1202	61% reduction

CreteDefender P2 must be applied using a method that saturates the concrete for 20-30 minutes. Any puddles or ponding must be removed from the concrete using a stiff broom or squeegee, moving the material onto drier areas until there is no standing material on the surface of the concrete. Application on machine troweled concrete requires agitation with a broom or scrubber for 40 minutes, then removal of any remaining product with a squeegee.

Two applications are required for all exterior concrete. One application is needed for interior, machine troweled concrete. A minimum of 6 hours is required between applications. Depending on the porosity of the concrete or the anticipated constant exposure to salt, additional applications may be required. Please contact CreteDefender, Inc., directly for recommendations in these situations.

Concrete treated with CreteDefender P2 is compatible with paints and other coatings. Wait 24 hours after applying CreteDefender P2, wash the surface with water and allow to dry before applying other paint or coatings.

Coverage:

Coverage rates are entirely dependent upon the porosity of the concrete and the weather conditions. Coverage rates will be better when applied out of direct sunlight during the coolest part of the day. Early morning or during the night are best.

For estimating purposes, CreteDefender P2 generally averages 120-150 square feet per gallon (3 meters/liter) per application for exterior, broom-finished concrete, and 150-200 square feet per gallon for interior, machine troweled. The amount you use may be significantly more or less, depending on weather and porosity.

You are not applying a membrane or coating. CreteDefender P2 is a reactive chemical. Application process is critical to success.

Warranty: CreteDefender carries a 12 year limited product warranty.