



## CreteDefender™ Spec Sheet

### Product Description:

CreteDefender™ is a liquid concrete treatment that chemically reacts with the free lime components of concrete to penetrate the pore and capillary structure of concrete. 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 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 works on portland cement based concrete, with a minimum compressive strength of 2000psi (14 MPa), and a maximum water to cement ratio between .36:1 and .5:1.

CreteDefender 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.

Concrete treated with CreteDefender is compatible with paints and other coatings. Allow 24 hours after applying CreteDefender before applying other coatings.

### 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  
1.9 - 5.75 m<sup>2</sup>/liter  
**See Coverage notes**  
Drying time: 2-10 hours  
Drying time between applications: Minimum of 6 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%
Chlorides	Modified EPA300	0.056%

### Application:

CreteDefender 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 to be properly applied. CreteDefender must not be applied if rain is expected within 24 hours of application. Avoid contact with aluminum or glass.

CreteDefender 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.

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 directly for recommendations in these situations.

### 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 generally averages 125 square feet per gallon (3 meters/liter) per application. The amount you use may be significantly more or less, depending on weather and porosity.

You are not applying a membrane or coating. CreteDefender is a reactive chemical, and it is critical to allow the concrete to absorb as much as it can in 20-30 minutes on each application.

Warranty: CreteDefender carries a 20 year limited product warranty.