



Application Specification

CLEARSEAL 14 Solvent-based Acrylic Sealer

Purpose and Scope

Instructions for the surface preparation and application of Dex-O-Tex Clearseal 14 over various Dex-O-Tex products or as a clear concrete sealer.

Thickness Approx. 5 mils

Approximate Quantity of Materials Required

To Cover ONE HUNDRED SQ. FT (9.3 sq. Meters)

<u>Unit One Packaging</u>	<u>Amount Required</u>	<u>Spread Rate/ Mixed Gallon</u>
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Clearseal 14

One gal. can..... 4.0 gal 250 sq. ft. /gal

Or

Clearseal 14

5 gal. pail..... .0.8 pails

CAUTION: Actual coverage rates may vary dependant upon application methods, individual application techniques, surface texture and porosity of the substrate.

OPTION:

Clearseal 14 is available in Gloss or Satin finishes. Apply as listed below to achieve the desire finish:

Gloss Two coats of Clearseal 14 Gloss

Satin First coat Clearseal 14 Gloss
Second coat Clearseal 14 Satin

Brief of Installation

Prepare surfaces (see below) and apply Clearseal 14 in two coats by sprayer or squeegee and back roller at rate of 250 sq. ft. /gallon per coat.

Surface Preparation

A. Concrete: Provide a substrate that is free from any curing compounds, sealers, hardeners, grease, oil or any other contaminates. Shot blast (brush blast) or diamond grind substrate to provide an acceptable surface profile for subsequent application.

B. Cementitious Matrix: Surface shall be clean dry and free from contamination. When resealing existing surfaces prepared in accordance with SSPC SP 3.

C. Epoxy Flooring: Generally epoxy flooring utilizes epoxy or urethane topcoats. However, Clearseal 14 makes an excellent sealer for maintenance purposes. Prepared in accordance with SSPC SP 3.

D. Other Surfaces: Clearseal 14 may be applied over many other surfaces and substrates. Consult Crossfield Products Corp. for recommendations prior to application.

Job Site Survey

A. Perform moisture testing in accordance with one of the following methods:

ASTM F1869 *Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride*. Verify and document the results in accordance with the specification. If MVER exceeds 3 lbs./24 hrs./1000 sq. ft. and is under 10 lbs./24 hrs./1000 sq. ft., apply Dex-O-Tex VaporControl Primer 200 as per Application Specification S-970. If MVER exceeds 10 lbs./24 hrs./1000 sq. ft. and under 15–22* lbs./24 hrs./1000 sq. ft., apply VaporControl Primer 100 as per application specification S-972.

ASTM F2170 *Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*. Verify and document the results in accordance with the specification. If the in-situ relative humidity (rh) of the substrate is greater than 75% and less than 84%, apply Dex-O-Tex VaporControl Primer 200 as per Application Specification S-970. If the in-situ relative humidity (rh) is greater than 84%, and less than 89–99%*, apply VaporControl Primer 100 as per Application Specification S-972.

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*Apply VaporControl Primer 100 at the specified thickness required as per Application Specification S-972 for the level of MVER or in-situ relative humidity percentage of the substrate.

- B. Inspect Substrate to verify proper preparation before applying any materials.
- C. Measure and record ambient temperature and humidity, surface temperature and the temperature of the material being used Do not proceed with the application if the conditions are outside the recommended parameters.
- D. Inspect materials to be used. Verify material is the proper material and all components and sizes are correct. Inspect all containers and verify a proper factory seal with no signs of damage or leakage. Premix Liquid materials into a smooth homogenous blend before uses.

Environmental Conditions

All materials are mixed, applied and cured at the job site. Minimum environmental conditions are required to facilitate proper curing and Performance of the Products. Ensure conditions are in accordance with the following requirements.

<u>Ambient</u>	<i>Min</i>	<i>Max</i>
Temperature	45°F	100°F
Relative Humidity	20% rh	85% rh
Wind	NA	30 mph

<u>Substrate</u>		
Temperature	55°F	90°F
Relative Humidity	NA	78%
MVER	NA	6 lbs.*

<u>Materials</u>		
Temperature	63°F	83°F

* 6 lbs of MVT, per 1000 sq. ft., during a 24 hr., period as measured by ASTM F1869.

Materials should be delivered in original packages and containers with seals unbroken and bearing manufacturer's labels containing brand

name and directions for storage and mixing with other components. Check materials immediately upon receipt, verify all the correct materials in the correct packaging are accounted for in good condition. Sort the materials and store them in a tempered storage area.

STEP ONE – First Coat

Clearseal 14

Mix Ratio: NA Pot Life: NA
Initial Cure Time: 2 hrs Recoat Time: 2-24 hrs
Coverage: 250 sq. ft. DFT: 2.5 mils

- A. Premix the Clearseal 14 to insure proper polymer dispersion. Mix with a low speed electrical mixer for approximately one minute to a homogenous blend. Transfer the material into a garden type sprayer (Hudson sprayer).
- B. Apply a thin coat of Clearseal 14 onto the surface by spraying and backrolling. Do not allow the sealer to puddle or be applied too thick. One gallon (1 gal Clearseal 14) mixture should cover approximately 250 square feet (250 sq. ft./gallon) over smooth surface. If the surface is textured, the coverage rate will go down and more material will be required. Allow to cure.

CAUTION: Clearseal 14 is a thin film system (only approx 5 mils DFT). Shot blasting and grinding may result in a surface profile in excess of 7 mils. Take care to avoid surface preparation profile does not telegraph through the system. Extra coats or finer profiling of the substrate may be required.

STEP TWO – Second Coat

Clearseal 14

Mix Ratio: NA Pot Life: NA
Initial Cure Time: 2 hrs Recoat Time: 2-24 hrs
Coverage: 250 sq. ft. DFT: 2.5 mils

- A. Premix the Clearseal 14 to insure proper polymer dispersion. Mix with a low speed electrical mixer for approximately one minute to a homogenous

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blend. Transfer the material into a garden type sprayer (Hudson sprayer).

- B. Apply a thin coat of Clearseal 14 onto the surface by spraying and backrolling. Do not allow the sealer to puddle or be applied too thick. One gallon (1 gal Clearseal 14) mixture should cover approximately 250 square feet (250 sq. ft./gallon) over smooth surface. If the surface is textured, the coverage rate will go down and more material will be required. Allow to cure.

OPTION: If increased skid resistance is required, add 2 oz synthetic aggregate per gallon of Clearseal 14 in the second coat and apply by roller. Remix the material periodically to disperse to aggregate evenly. Take care to apply the material uniformly and avoid roller makers.

Cautions for Safe Handling of Polyacrylate Systems

1. Always obtain, read and observe Manufacturer's Safety Data Sheets (MSDS) before using materials.
2. Read and observe precautionary statements on product labels.
3. Keep containers tightly closed.
4. Keep out of reach of children.
5. For industrial use only. Do not allow applications by untrained workers.
6. Remove contaminated clothing and shoes. Wash clothing before re-use.
7. Use of safety goggles and dust masks is recommended. See MSDS for detailed recommendations.



DEX-O-TEX PRODUCT LINE Crossfield Products Corp.

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