



CCC 150

Cement Based Waterproof Coating

PRODUCT DESCRIPTION

CCC 150 is a Portland Cement based with an acrylic additive, brush applied waterproof coating system for concrete and masonry surfaces.

CCC 150 is formulated similar to concrete, and becomes an integral part of the wall when properly applied, to give a uniform color and finish of the concrete substrate.

CCC 150 produces a textured finish, provides a decorative protection to the surface, which fills and seals the pores, voids and allows the substrate to breathe.

FIELDS OF APPLICATION

CCC150 waterproofs masonry and concrete surfaces, interior and exterior, above and below grade. Typical applications are:

- Reservoirs and water tanks.
- Bridges, tunnels.
- Foundations, parapets and basements.
- Swimming pools, toilets and fountains.
- Building walls, retaining walls.
- Sewage treatment plants and other surfaces subject to water penetration.

CCC 150 is normally applied to the surface facing the water source. However, CCC 150 is strong enough to withstand hydrostatic pressures from the negative side of the wall.

Compatibility: **CCC 150** is applied to concrete, block, brick, stone, pre-cast and formed concrete, stucco, cement plaster and other properly prepared, structurally sound masonry and concrete wall surfaces.

PRODUCT FEATURES

- Ready-to-use work pack.
- Suitable for interior and exterior applications.
- Excellent adhesion.
- Freeze thaw resistance.
- Waterproof and weatherproof.
- Allows substrate to breathe.
- Withstands hydrostatic pressure from negative side of the wall.
- Non-toxic suitable for clean water.

PACKAGING

Product
CCC 150

Packaging
50 lb/bag
(22.7 kg/bag)

TECHNICAL DATA

Report	Test Method	Test Criteria	Test Results
Absorption	ASTM C-67	24 hr soak 5 hr. boil	4.5 % 4.6 %
Freeze Thaw Resistance	ASTM C-67 ASTM C-666	Loss at 50 cycle Durability factor -	1.1 % 101 after 300 cycles
Chloride Content	ASTM D-144	-	0.0099%
Water Permeance	ASTM E-514	Results after coating leaking wall. Extent of Damp Area -72 hrs.-0%. Max. leakage Rate-Hour-None	
Salt Spray Resistance		300 hour exposure to 5% solution at 32 °C. No adhesion loss or deterioration at test completion.	
Fungus Growth Resistance	Fed. Test 141 Method 627-1	-	Resistant
Weatherometer 6,000 hours	ASTM C-26	No crazing, cracking, chipping or flaking. Light chalk and color change. No other deterioration.	
Compliance	-	Meets FSTTP 0035	
Flexural Strength Psi (MPa) (28 days)	ASTM C-348	760 (5.2)	
Bond Strength Psi (MPa)	ASTMD-4541 Method A	50 (0.36)	
Initial Setting Time at 77°F (25°C)	ASTM C-191	270 min	
Final Setting Time at 77°F (25°C)	ASTM C-191	300 min	
Working Time at 77°F	-	180 min	

(25°C)		
Mixed Density lb/gal (kg/L)	ASTM D-1475	15.0 (1.80)

APPLICATION DATA

Surface Preparation:

Surface must be structurally sound, clean and free from dirt, oil and all contaminants. New concrete and masonry surfaces must be cured for 28 days. Provide an absorptive surface on all substrates including smooth pre-cast and formed concrete, by abrading the surface. Remove form marks and other protrusions to prevent 'show through'. Repair all surface defects, cracks and voids before applying **CCC 150**.

Allow preparations to cure minimum 24 hours before coating. Dampen the substrate with clean water immediately before **CCC 150** application.

Leaking Areas; Basement Interior:

Repair all joints with **CEM 220** Polymer Modified Cementitious Repair Mortar. Apply **CEM 290** Hydraulic Cement Water Plug where running water is a moisture problem. To relieve any excess water pressure, tap pressure relief holes at the base of wall. Leave holes open until surrounding **CEM 290** is firmly set (about 24 hours). Fill holes with **CEM 290** plug and coat immediately with **CCC 150**. If ordinary dampness is present, brush one coat of **CCC 150** on the surface at the rate of 1.1 kg/m².

Mixing Procedure:

CCC 150 must be mechanically mixed, using a slow speed motor and mixing blade to thoroughly disperse all ingredients. Do not aerate mix.

Mixing Ratio:

Approximately 9.0 lit of clean water for every 25 kg bag of **CCC 150**.

- ☐ For smooth, dense surfaces or for stronger adhesion and denseness, use **EB 550 SBR** along with water as mixing liquid for mixing with **CCC 150**.

Pot Life:

Approximately 20 minutes at 26 °C. Mix only as much **CCC 150** as can be used in 20 minutes to prevent waste.

- ☐ Blend 3 parts of clean water with one part of **EB 550 SBR** in a clean container to make up the mixing liquid.
- ☐ Pour approx. one half of the required mixing liquid into an empty clean container, and begin slow speed power mixing while slowly adding **CCC 150**.
- ☐ Gradually add more **CCC 150** and mixing liquid to bring the mixture to the consistency of a heavy completely blended slurry mixture.

- ☐ Stop mixing; allow material to "Fatten" for 8-10 minutes.
- ☐ When "fattened", remix, and if necessary, add more mixing liquid to brushing consistency.

Application:

Dampen the substrate thoroughly with clean water before starting application.

Hand Brush Method:

Use a cement mason's brush. Load bristles with **CCC 150** and lay on a heavy coat using long, smooth, horizontal, strokes with sufficient material to fill all pores and voids. The final brush strokes should be in one direction to produce an even texture and finish.

Second Coat: Dampen the first coat with water within 4 hours after 1st coat has been applied prior to application of second coat.

COVERAGE

The coverage rates below are approximate and for estimating purposes only. Surface texture and porosity determines the total amount of **CCC 150** required.

- ☐ For ordinary wall waterproofing conditions, apply a coat of **CCC 150** at 0.22 lb/ft² (1.1 kg/m²) and a second coat at 0.22 lb/ft².

For areas subjected to severe water pressures, double the above coverage. Total thickness of the coats will be approx. 1.5-3.0 mm thick.

CLEANING

Clean all mixing and application equipment with water immediately after use. **CCC 150** is a cementitious product containing an acrylic additive. Removal becomes extremely difficult if it is allowed to dry on the surface.

CAUTION

- ☐ Do not apply to frozen or frost filled surfaces or when temperature is below 5°C or expected to fall below 5°C in 24 hours.
- ☐ Do not use on traffic bearing surfaces.
- ☐ Do not fill open cisterns, tanks, pools, etc. with water at least for 7 days. When using **CCC 150** in enclosed tanks or reservoirs, make sure that adequate ventilation is available during application and the total curing period.
- ☐ Occasionally, a white powdery substance known as efflorescence appears on masonry walls due to moisture carrying soluble salts to the surface. If this is present on the surface prior to application of **CCC 150** it must be removed with a wire brush or

10% muriatic acid solution and thoroughly washed-off. If this efflorescence appears after application of **CCC 150**, it will eventually work its way out over a period of time.

SAFETY PRECAUTIONS

Measure water accurately to prevent strength reduction. Do not use additives such as retarders, set accelerators, calcium chloride or additional sand. Do not place **CCC 150** when temperatures are below or expected to fall below 1-2 °C within 72 hours.

STORAGE

CCC 150 has a shelf life of 12 months when stored in cool, dry conditions in unopened bags.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

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Distributed by

John Echols, Sales Agent, Southwestern Composite Structures, Inc.

Phone: 888-213-4433 / Fax: 972-484-2557

Email: John@Echols.com

www.withconcrete.com