



CCC 900

Two-Component, Modified Cementitious Acrylic Coating System

PRODUCT DESCRIPTION

CCC 900 is a two-component, thixotropic, cementitious acrylic modified flexible coating system with a high-adhesion to concrete, masonry and steel. **CCC 900** forms a hard, highly alkaline waterproof coating with a degree of elasticity, which protects the concrete or other substrates from the effect of aggressive acid gases, moisture and chlorides. **CCC 900** has good chemical resistance to gasoline, diesel oil, sodium hydroxide, calcium chloride and sewage.

BASIC USES

To waterproof concrete, cement-rendering, brick work and block work. To protect concrete against the effect of free-thaw cycles, de-icing salt, carbon dioxide and other acid gases, dilute acids and alkalis. Waterproofing of water tanks, sealing internal basement and cellar walls against dampness, protection of concrete structures in marine environments, coating of sewage and water channels.

ADVANTAGES

- ☐ Easy to use: brush, trowel or spray applied normally in two coats.
- ☐ Flexible: ideal for coating small movement cracks.
- ☐ Excellent adhesion, bonds to porous and non-porous surfaces.
- ☐ Excellent resistance to CO₂.
- ☐ Non-toxic when cured.
- ☐ Whilst repelling water, allows substrate to breathe.
- ☐ Resists up to 70m head of pressure, waterproof.
- ☐ High resistance to chloride ion diffusion, economical.

PACKAGING

Product	Packaging
CCC 900	66 lb (30 kg)
Part A	50 lb (22.7kg) Grey Powder
Part B	16 lb (7.3kg) White Liquid

TECHNICAL DATA

Physical Properties	Result
Basis	Cementitious modified advanced acrylic polymers and wetting agents
Mixed Color	Grey
Density (Mixed) lb/gal (kg/L)	15 (1.8)
Pot Life	240 min. @ 25°C
Drying Time	2-3 hours depending upon temperature and base concrete porosity
Number of Coats Required	2 coats
Adhesion to Concrete, Psi (MPa) 7 days ASTM D-4541 Method A	190 (1.32) N/mm ² Concrete Failure
Water Permeability ASTM E-96 (2.6 mm) Two Coat	Perms = 3.07
Salt Spray Resistance ASTM B-117	300 hours = no effect
% Elongation ASTM D-522	60%
Thickness for 1 mm Coating Resistance to water pressure	SC>89cm
2 mm coating DIN 1048	3 bars no leakage
Pressure Application Rate: 1 bar 3 bar 7 bar (70 m. head)	2 kg/m ² 4 kg/m ² 6 kg/m ²

Coverage: 0.36 lb/ft² (1.8 kg / m²) for 40 mil (1mm) thick coat

Chemical Resistance:

Good chemical resistance to gasoline, diesel oil, sodium hydroxide, calcium chloride and sewage. Coated surfaces exhibit good resistance to mild acids.

APPLICATION DATA

Surface Preparation: The areas to be treated must be free from all grease, oil, dust, residual curing compound, mold release agent or other contaminants that could impair adhesion. Smooth surfaces should be roughened, all loose material and surface laitance should be removed by shot blasting or hydro jetting. Mechanical wire brushing may be appropriate for small areas.

Spalled concrete should be cut back to sound concrete and made good with suitable cementitious repair mortar such as **CEM 220**. Conventional concrete curing compounds should be removed before application. Use Chem-Crete **CEM 241** to seal all existing pin holes.

Mixing:

CCC 900 is supplied in pre-measured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix, using slow speed drill fitted with suitable paddle. Mix and use. The workability can be increased by addition of small amounts of clean water – maximum 355 ml.

Placing:

CCC 900 can be applied using spray techniques; however, a stiff bristle brush or roller may be employed although trowel application can be undertaken as necessary. Apply the first coat, approximately 1mm thick, onto the prepared substrate. To ensure total protection, a second coat should be applied in the same way after waiting 30 minutes, depending on the temperature (when the first coat is stable but not fully set).

CLEANING

All tools should be cleaned with water immediately after use.

STORAGE

Store in dry frost-free conditions at moderate temperatures no greater than 35°C.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eye, mouth, skin, and foodstuffs. Treat splashes to eye and skin immediately. If accidentally ingested seek immediate medical attention.

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

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