

# SC FOUNDATION COATING

Cement-based foundation coating



## DESCRIPTION

SC FOUNDATION COATING is a polymer-modified, cement-based waterproofing coating formulated to provide superior water-resistant concrete and masonry substrates. SC FOUNDATION COATING is designed to waterproof the exterior surface of below grade concrete and masonry. SC FOUNDATION COATING closes the internal voids in the substrate, but still allows full breathability.

## FEATURES/BENEFITS

- Waterproofs interior, exterior, above & below grade masonry & concrete surfaces.
- Apply to concrete block, brick, stone, precast concrete or formed concrete.
- Apply to both positive & negative side (when hydrostatic pressure is low & aesthetics are not important).

## APPLICATION

**Surface Preparation:** The surface must be structurally sound, clean, and free of dirt, release agents, efflorescence, curing compounds, laitance, and other contaminants. Remove form marks and other protrusions to prevent "show through". Form a cove at the footer-wall intersection point and fill all broken corners of block and breaks in the surface. Repair all surface defects including cracks and voids with SC FOUNDATION COATING mixed to a mortar consistency. Cut back wires a minimum of 3/4" and repair with Spec Patch or Spec Plug. Dampen the surface with clean water immediately before SC FOUNDATION COATING application.

**Mixing:** SC FOUNDATION COATING must be mechanically mixed using a slow speed motor and mixing blade to thoroughly disperse the ingredients. Mix for approximately three minutes. Do not over-mix the material.

- Pour approximately one half of the required two gallons into an empty, clean container and begin slow speed mixing.
- Slowly add SC FOUNDATION COATING and mixing admixture\* (water or Acrylic Bonder) as needed to bring the mixture to a heavy, completely blended pancake batter consistency.
- Stop mixing and allow the mixture to "fatten" for ten minutes.
- Re-mix and, if necessary, add more mixing admixture to reduce batter consistency.

\*Note: To improve bonding & mechanical properties on concrete, masonry and for all trowel applications, prepare an acrylic admixture using 1 part Acrylic bonder and 3 parts potable water. For example two gallons of mixing admixture consists of two quarts of Acrylic Bonder blended with six quarts of water. When using as a pointing mortar, the use of Acrylic Bonder admixture is recommended.

**Application:** Pre-dampen the substrate with clean, potable water before any application. All applications should carry down to and over the footer, forming a cove at the walls-footer intersection. Apply two uniform applications of SC Foundation Coating, each application at approximately 1- 2 lbs/yd<sup>2</sup>, allowing 24 hours between applications. Make sure both applications carry down to and over the footer, forming a 1-1/2" (38cm) cove at the junction of walls and footers

- **Hand Brush:** Apply using a six inch cement masons brush. Load bristles and lay on a heavy coat using long, smooth horizontal strokes. Apply sufficient material to fill voids. Final strokes should all be in one direction to produce an even texture and finish. Allow first coat to dry for 12 to 24 hours before applying a finish coat.
- **Push Broom:** Use a five gallon pail or wide mount tub to hold product. Dip a ten inch, Tampico bristle push broom into product mix just enough to load the bristles. Apply a heavy coat using long, even horizontal strokes. Apply sufficient material to fill all voids. Lift the brush at the end of each stroke. Final strokes should all be in one direction to produce an even texture & finish. Do not over-brush. Allow the first coat to dry for 12 to 24 hours before applying a finish coat.
- **Spray:** Use heavy duty spray equipment capable of spraying cement-based products or mastics.
- **Trowel:** The use of trowel applications is required in some severe water pressure situations.

## PACKAGING

Coverage: 225 - 450 sq-ft per 50 lb bag per coat

## CLEAN UP

Tools and equipment may be cleaned with water before SC FOUNDATION COATING hardens.

## SHELF LIFE

Shelf life of unopened bags stored in a dry facility is 12 months. Excessive temperature differential and/or high humidity can shorten the shelf life expectancy. Store in a cool, dry area away from direct sunlight.

**SPEC CHEM**  
Solution to Service

1511 Baltimore Ave, Suite 600  
Kansas City, MO 64108

www.specchemllc.com 866.791.8700

## TEST DATA

Typical Test Results		
Property	Results	Test Methods
Initial Set (mins)	12	ASTM C266
Final Set (mins)	90	ASTM C266
Compressive Strength (psi)		
7 days	3,900	ASTM C109
28 days	6000	ASTM C109
Flexural Strength (psi)		
7 days	350	ASTM C348
28 days	1000	ASTM C348
Tensile Strength (psi)		
14 day	390	ASTM C190
Bond Strength (psi)		
14 day	400	ASTMC882 modified
Water Absorption by Weight	3%	ASTM C67
Positive Resistance to Hydrostatic Pressure	750hrs	CRD C48, modified
Negative Resistance to Hydrostatic Pressure	650hrs	CRD C48, modified
Abrasion resistance	Passed	Fed. Spec TT-P-141B
Modulus of Elasticity (psi)	2.75x10 <sup>6</sup>	ASTM C469
Freeze/thaw Resistance (300 cycles)	No change	ASTM C666
Permeance	12(0.10873)	ASTM E96
Impact Strength	No chipping	Fed. Spec TT-P-0035
Hardness		
21 day	50	Fed. Spec TT-P-0035
Fungus Resistance	No Growth Present	Fed. Spec TT-P-29B

## LIMITATIONS/PRECAUTIONS

Do not retemper after initial mixing. Do not add other cements or additives to this product. SC FOUNDATION COATING is a fast setting product, so mixing equipment should be cleaned with water as soon as possible.

## LIMITATIONS/PRECAUTIONS

Do not allow repairs to freeze until the material has reached a minimum of 1000 psi compressive strength.

In adverse temperatures, follow ACI recommendations for hot/cold weather concreting practices.

Use only potable water for mixing.

Minimum surface and ambient temperature of 45°F and rising is required at the time of application.

For optimum results, condition material to between 65°F and 85°F.

**Caution:** Contains Portland cement and sand. Cement will cause irritation. Avoid contact. A dust respirator, safety goggles, and rubber gloves are recommended. Avoid prolonged contact with clothing. In case of contact with eyes, immediately flush with water for at least 15 minutes. Get prompt medical attention. Do not wear contact lenses when working with this product. DO NOT take internally. Keep out of reach of children.

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels, and technical literature. Please read this information prior to using the product.

**DO NOT EXPOSE TO OR APPLY NEAR FIRE OR FLAMES. FOR WELL VENTILATED OR EXTERIOR USE ONLY!**

## WARRANTY

### NOTICE-READ CAREFULLY CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

### WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

### INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

**SPEC CHEM**  
Solution to Service

1511 Baltimore Ave, Suite 600  
Kansas City, MO 64108

www.specchemllc.com

866.791.8700