

SURE-COAT

Description

ProSpec[®] Sure-Coat is a single component polymer modified portland cement based coating for waterproofing concrete and masonry. Designed to protect structures from moisture damage and dampness.

Features

- Waterproof coating
- Formulated with mold inhibitor
- Resistant to positive and negative hydrostatic pressure
- Low permeability
- Durable fine sand finish
- Paintable
- Above and below grade
- Interior or exterior use
- Superior bond
- Can be used as a decorative coating
- Brush, spray or trowel apply
- Vertical and overhead applications

Uses

- Basements
- Parapets
- Reservoirs
- Silos
- Grain elevators
- Foundations
- Traffic median barriers
- Stone
- Historical soft brick
- Brick
- Concrete block
- Precast concrete
- Planters
- Fountains
- Cast-in-place concrete
- Glass block mortar joints
- Tilt-up concrete
- Tunnels and bridges

Technical Data

Wind Driven Rain Resistance ASTM D 04-03	Sure-Coat with Water	
Pass	Compressive Strength ASTM C 109	
Accelerated Weathering ASTM G 23	7 days	>4,500 psi (31 MPa)
Passed 5000 hours	28 days	>5,000 psi (35.8 MPa)
Tabor Abrasion Resistance ASTM C 1353	Flexural Strength ASTM C 580	
Passed 500 cycles	7 days	>1,000 psi (6.9 MPa)
Shore D Hardness ASTM D 2240	28 days	>1,100 psi (8.5 MPa)
>65	Tensile Strength ASTM C 180	
Absorption ASTM C 67, section 8 14 days	7 days	>300 psi (2 MPa)
<6.5%	28 days	>450 psi (3.1 MPa)
Water Vapor Transmission ASTM C 355	Water Absorption EN12808-5	
Mixed with water	4 hours	0.89%
Mixed with acrylic additive	24 hours	1.61%

Test results obtained under controlled laboratory conditions.
Reasonable variations can occur due to atmospheric and job site conditions.

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Preparation	Refer to
<ol style="list-style-type: none"> 1. Clean area and remove all unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance. 2. Surface preparation should comply with ICRI technical guideline number 03732 (selecting and specifying concrete surface preparation for sealers, coatings and polymer overlays). 3. Relieve hydrostatic active water pressure. 4. Repair, fill and level any damaged areas deeper than an 1/8" before application of coating with ProSpec[®] Instant Hydraulic Cement or other appropriate ProSpec repair product. 5. Surface should be Saturated Surface Dry (SSD). <p>NOTE: It is the responsibility of the installer/applicator to ensure that test areas are performed to determine the suitability of the product for its intended use.</p>	<ul style="list-style-type: none"> • ASTM D 4259 <u>Abrading Concrete</u> • ICRI Guideline 03730 <u>Surface Preparation Guidelines for Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation</u> • ICRI Guideline 03731 <u>Selecting Application Methods for the Repair of Concrete Surfaces</u> • ICRI Guideline 03732 <u>Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays</u> • ACI 201.1R <u>Guide for Making a Condition Survey of Concrete in Service</u> • ASTM D 4258 <u>Surface Cleaning Concrete for Coating</u> • ASTM D 4261 <u>Surface Cleaning Concrete Unit Masonry for Coating</u>

Mixing	
<ol style="list-style-type: none"> 1. Add dry material to 4.0 quarts (3.8 L) of clean potable water per 50 lb. (22.7 kg) bag. 2. Mix mechanically with a high torque electric drill, not to exceed 600 r.p.m., with a paddle type mixing blade. 3. Add remaining 2.5-3 quarts (2.4-2.8 L) of water to the mix to achieve a smooth and creamy pancake batter consistency. 	<ol style="list-style-type: none"> 4. Under hot, dry, windy conditions, replacing part of the mix water with up to 2 quarts (1.9 L) of ProSpec Acrylic Additive will promote curing and improve bond. 5. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the set time.

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Placement

Brush Application

1. Dampen the surface prior to application.
2. Use a coarse fiber masonry brush to apply sufficient material filling all voids.
3. Backrolling or brushing may be necessary to assure no pinholing occurs.
4. Waterproofing – apply two coats at cross directions (first coat horizontal, second coat vertical).
5. Wait at least 5-24 hours between coats depending on substrate and ambient conditions.
6. If the wall becomes dry and the Sure-Coat starts to pull during the application, re-wet the wall.
7. Do not bridge over existing expansion or control joints.

Spray Equipment

The following information is offered as a guide only. Specific product, equipment, application conditions and user experience will influence proper equipment selection. Consult with the equipment manufacturer for equipment handling techniques. Field test material with equipment prior to starting.

Pump	Orifice
Hopper Gun	3/16" (5 mm) opening
Pressure at Gun	25 psi (0.2 MPa)

Specific Applications

1. Interior applications - above grade
Recommended coverage: 1/16"-130 sq. ft. (2 mm-12 sq. m) per bag applied in two equal coats.
2. Interior applications - below grade
Recommended coverage: 3/32"-90-95 sq. ft. (2 mm-8-9 sq. m) per bag applied in two equal coats. Protection against negative hydrostatic pressure - 1/8"-65 sq. ft. (3 mm-6 sq. m) per bag applied in two equal coats (install on the positive side when possible).
3. Exterior applications - above grade
Recommended coverage: 1/16"-130 sq. ft. (2 mm-12 sq. m) per bag applied in two equal coats.
4. Exterior applications - below grade
Recommended coverage: 3/32"-90-95 sq. ft. (2 mm-8-9 sq. m) per bag applied in two equal coats.
5. Reservoirs
Recommended coverage: 1/8"-65 sq. ft. (3 mm-6 sq. m) per bag applied in two equal coats.

Curing

Protect from rain for 24 hours. Materials modified with ProSpec[®] Acrylic Additive should be air cured unless hot and/or drying winds or low humidity are present. Under such conditions, lightly fog spray.

Refer to

- ACI 308 [Standard Practice for Curing Concrete.](#)

Colors

White or gray

NOTE: Color uniformity with cementitious products vary due to weather and substrate conditions. It may be necessary to apply a top coat of an architectural coating.

Yield

Coverage may vary depending on the porosity and texture and application thickness. See Specific Applications section.

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Packaging

50 lb. (22.7 kg) bag

Shelf Life

One year from date of manufacture.

Best Performance

- Apply when air or substrate temperature is between 40° F (4° C) and 100° F (38° C). For applications outside this range of temperatures, contact ProSpec Technical Service.
- Use only clean mixing container and tools.
- Do not add any materials other than clean potable water or recommended additive.
- Do not mix more than can be applied within 2 hours.
- Retemper as needed without addition of water.
- Do not apply if temperature is expected to fall below 40° F (4° C) within 24 hours of application.
- Do not use as a horizontal wear surface.

NOTE: Proper application and installation of all ProSpec products are the responsibility of the end user.

Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Product is alkaline and may burn or irritate upon contact with eyes or skin. Do not take internally. Use of safety goggles, rubber gloves and dust respirator is recommended. Avoid prolonged

contact with clothing. This product contains crystalline silica. Take measures to contain and reduce dust. Prolonged exposure to crystalline silica may cause silicosis or other serious delayed lung injury.

Avoid breathing dust. For prolonged exposure wear a respirator approved for protection against crystalline silica dust. Crystalline silica has been classified by IARC and NTP as a carcinogen.

First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes and SEEK IMMEDIATE MEDICAL ATTENTION. For skin contact, wash thoroughly with soap

and water. If swallowed, SEEK IMMEDIATE MEDICAL ATTENTION. For additional information, call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887

outside of the USA. Refer to Material Safety Data Sheet (MSDS) for further information.

LIMITED 1 YEAR WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING LOSS OF PROFITS OF ANY KIND. Product demonstrations are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. This Warranty constitutes the sole warranty given by Bonsal American in connection with this product. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American. Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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