PROSPEC®

SURE-COAT®

1. PRODUCT NAME
ProSpec® Sure-Coat®

2. MANUFACTURER
TEC Specialty Products LLC
1105 South Frontenac Street
Aurora, IL 60504-6451 U.S.A.
1-800-832-9002 Customer Service
1-800-832-9023 Technical Support
prospec.com

3. PRODUCT DESCRIPTION
ProSpec® Sure-Coat® is a single component, polymer-modified, portland cement-based, water-resistant coating for concrete and masonry. Designed to protect structures from moisture damage and dampness.

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

USES
- Basements
- Below grade walls
- Median barriers
- Stone
- Historical soft brick
- Brick
- Concrete block
- Precast concrete
- Tilt-up concrete
- Cast-in-place concrete

SAFETY
READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT.
SDS Sheets are available on our website prospec.com or contact
Medical Emergency Phone Number (24 Hours): 1-888-853-1758,
Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300
or contact ProSpec® Technical Services at 800-832-9023
(7:00AM to 5:00PM M-F, Central US Time).

CAUTIONS
Read complete cautionary information printed on product container prior to use. For medical emergency information, call 1-888-853-1758. This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered ProSpec® brand product(s) under normal environmental and working conditions. Because each project is different, TEC Specialty Products LLC cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

LEED® Eligibility[1]
- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.2)

PRODUCT ENHANCEMENTS

Micro Defense® Technology
Special antimicrobial additive that prevents the growth of mold and mildew.

PACKAGING
Gray: 50 lb (22.7 kg) bag
White: 50 lb (22.7 kg) bag

SHELF LIFE
12 months from the date of manufacture when stored in the original, unopened container under cool, dry conditions and out of direct sunlight.

4. INSTALLATION
Preparation
1. Surfaces must be clean, hard, and free from dirt, loose particles, sealers, wax, curing compounds, grease, paint, efflorescence, and any foreign materials that will inhibit adhesion. Surface preparation should comply with ICRI technical guideline number 03732 (selecting and specifying concrete surface preparation for sealers, coatings and polymer overlays).
2. The concrete substrate must be properly cured and be > 85%of the final desired strength.
3. Patch all holes and cracks before application of Sure-Coat® using ProSpec® Vinyl Concrete Patch or ProSpec® BlendCrete®.
4. Relieve hydrostatic active water pressure with weep holes.
5. Surface must be brought to a saturated surface dry (SSD) condition with clean potable water. All excess water must be removed.
6. Do not use on surfaces that are frost covered.
7. The ambient and surface temperatures should be maintained between 45°F and 90°F (7°C - 32°C) for 72 hours prior to application. Hot temperatures will shorten setting time, while cold temperatures will extend setting time.

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.

REFER TO:
ASTM D 4259: Abrading Concrete
ICRI Guideline 03730: Surface Preparation Guidelines for Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation
ICRI Guideline 03731: Selecting Application Methods for the Repair of Concrete Surfaces
ICRI Guideline 03732: Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays
ACI 201.1R: Guide for Making a Condition Survey of Concrete in Service
ASTM D 4258: Surface Cleaning Concrete for Coating
ASTM D 4261: Surface Cleaning Concrete Unit Masonry for Coating

All materials should be stored at 40°F (4°C) to 80°F (27°C) 24 hours prior to installation

JOB MOCKUPS
The manufacturer requires that when its ProSpec® products are used in any application or as part of any system that includes other manufacturers' products, the contractor and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any construction. Written documentation of the tests performed shall be satisfactory to the design professional and contractor. Test results must include the means and methods of application, products used, project-specific conditions being addressed, and standardized tests performed for each proposed system or variation.

MIXING

1. Prior to using, material should be stored in an area to bring the temperature between 45ºF and 90ºF (7ºC - 32ºC).
2. Liquid requirements: 6.5 - 7 qt (6.2 - 6.6 L) per 50 lb bag (22.7 kg). Mixing liquid varies by desired water resistance.
3. Mixing Liquid (~13 perm rating @ 1/8"): 3 parts TEC® 861 Patch Additive to 3 parts water.
4. Mixing Liquid (~17 perm rating @ 1/8"): 100% water.
5. Add 4 qt (3.8 L) of mixing liquid per 50 lb (22.7 kg) of powder into a clean mixing container.
6. Add the powder slowly while mixing. Mix mechanically with a high torque electric drill using a paddle type mixing blade. Do not exceed 600 rpm.
7. Add remaining 2.5 qt (2.4 L) of mixing liquid to the mix to achieve a smooth and creamy pancake batter consistency.
8. The working time is 60 – 80 minutes at 70ºF (21ºC). Sure-Coat® sets in approximately 3 hours. The addition of cold water at higher temperatures or warm water at lower temperatures will aid in adjusting the set time.

For application deeper than 2 in. (5 cm), the Slab Dowel Grout should be extended by 60% by weight with pea gravel with an approximate size of 3/8 in. (9.5 mm) which is clean, SSD, and conforms to the requirements of ASTM C 33.

APPLICATION

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 Services.

Brush Application

1. Dampen, but do not saturate the surface with clean, potable water prior to and during application.
2. Use a coarse fiber masonry brush to apply sufficient material to fill all voids. It is essential to work the first coat into all voids, non-moving cracks and holes.
3. Finish with a uniform horizontal stroke to assure no pin holes occur and an uniform finish is obtained. If additional coats are applied wait a minimum of 5 hours before applying each coat. Each coat must be applied within 24 hours of previous coat.
4. Achieving the published water resistance requires a second coat applied in the opposite direction of the first coat. Do not bridge over existing expansion or control joints.

Note: For applications over block or masonry walls, allow Sure-Coat® to cure 5 - 7 days to reduce joint telegraphing.

Spray Application

The following information is offered as a guide only. Sure-Coat® flow characteristics, equipment, application conditions and user experience will influence proper equipment selection. Consult with the equipment manufacturer for equipment handling techniques. Always field test material with equipment prior to starting.

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

Note: For the first coat, after the initial spray application, brush, or broom to ensure uniform coverage and that all voids are filled.

SPECIFIC APPLICATIONS		
Interior:	**Thickness[1]**	**Approximate Rate[1]**
Above Grade	1/16" (1.6 mm)	130 ft² (12 m²)
Below Grade - General	3/32" (2.4 mm)	90 ft² (8.4 m²)
Below Grade - Negative Hydrostatic Pressure	1/8" (3.2 mm)	65 ft² (6 m²)
Exterior:	**Thickness[1]**	**Approximate Rate[1]**
Above Grade	1/16" (1.6 mm)	130 ft² (12 m²)
Below Grade - General	3/32" (2.4 mm)	90 ft² (8.4 m²)
Reservoirs	1/8" (3.2 mm)	65 ft² (6 m²)

[1] Two coat application (required): Using mixing liquid ~13 perm rating with 3 parts TEC® 861 Patch Additive to 3 parts water.
Note: Color variation with cementitious products is to be expected due to weather and substrate conditions. For a uniform appearance it may be necessary to apply a top coat of an architectural coating.

CURING

- Protect from rain for 24 hours.
- Materials modified with TEC® 861 Patch 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

LIMITATIONS

- Do not add any materials other than clean potable water or recommended additive.
- Do not mix more than can be applied within 2 hours.
- Do not retemper with the 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.

COVERAGE

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

5. AVAILABILITY

To locate ProSpec® products in your area, please contact:
Phone: 800-832-9002
Website: prospec.com

6. WARRANTY

For warranty details, see your sales associate or prospec.com

7. MAINTENANCE

Not applicable

8. TECHNICAL SERVICES

Technical Assistance Information is available by calling the Technical Support Hotline.
Toll Free: 800-832-9023
Fax: 630-952-1235

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at prospec.com.

9. FILING SYSTEM

Division 7

[1] ProSpec® products can contribute to LEED® credits within the Material Resource, (Recycled Content & Regional Materials) and Indoor Environmental Quality (Low Emitting Materials).

10. TECHNICAL DATA

Permeance @ 1/8" (3.2 mm) thickness E-96 (Desicccant Method)	TEC® 861 Patch Additive / Water	Water
	< 13 perms	< 17 perms
Set Time ASTM C 191		
Initial Set	3 hours	
Final Set	3.5 hours	
Compressive Strength ASTM C 109 - Air Cured		
7 days	> 3,000 psi (20.7 MPa)	
28 days	> 4,000 psi (27.6 MPa)	
Flexural Shrinkage ASTM C 78		
7 days	> 1,000 psi (6.9 MPa)	
Hardness D 2240		
Shore D	> 65	
Water Absorption EN 12808-5		
4 hours	0.89%	
24 hours	1.61%	
Accelerated Weathering G-23	5,000 hours - No Failure	
Sand Abrasion Resistance D 968	Passes 500 cycles	
Wind Driven Rain Resistance A-A-1555	Excellent	

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Note: Test results obtained under controlled laboratory conditions at 73°F (22.7°C) and 50% relative humidity unless otherwise specified. Tested using 6.5 qt liquid (6.1 L) (3 part TEC® 861 Patch Additive to 3 part water) per 50 lb (23 kg) powder. Reasonable variations can be expected due to atmospheric and job site conditions.

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