

### 1. PRODUCT NAME

ProSpec® Vinyl Concrete Patch

### 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® Vinyl Concrete Patch is a fast-setting, one-component, polymer-modified, calcium aluminate cement-based, horizontal concrete patching compound.

### FEATURES & BENEFITS

- Designed for horizontal applications
- Can be applied from 1/16" (2 mm) - 2" (51 mm) in one lift
- Ready for pedestrian traffic in 8-12 hours
- Ready for vehicle traffic in 48 hours
- Excellent abrasion resistance
- Excellent resistance to deicing salts
- Shrinkage compensating
- Exceeds ASTM C928 for High Strength Mortar

### USES

#### Repair Of:

- Balcony/decks
- Overlayment and underlayment applications
- Industrial floors
- Driveways
- Tunnels
- Loading docks
- Concrete pipes
- Concrete beams and columns
- Resetting/pointing of brick, block or stone
- Walkways
- Curbs
- Ramps
- Concrete roof tile

### SAFETY

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT.

SDS Sheets are available on our website [prospec.com](http://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® Eligibility¹

- Regional Materials (MR-c5)

### PACKAGING

Gray: 40 lb (18.1 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

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

1. Clean area and remove all unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance.
2. Slick or sealed surfaces must be thoroughly roughened to CSP 3-5. Completely expose and clean all reinforced steel, ensuring a minimum clearance of 3/4" (19 mm) behind reinforcing steel.
3. Perform reinforcing steel preparation in accordance with International Concrete Repair Institute Technical Guideline No. 03730.
4. Surface should be brought to a saturated surface dry (SSD) condition with clean potable water.
5. For difficult to bond substrates or 1/16" repair applications, mix with TEC® Patch Additive (used at full strength).

#### REFER TO:

**ASTM D4259:** 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

**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.

### 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. Add dry material to 3 - 4 qt (2.8 - 3.7 L) of clean potable water per 40 lb (18.1 kg) bag.
2. For enhanced performance substitute 1 qt (0.9 L) of TEC® Patch Additive (used at full strength) for 1 qt (0.9 L) of water per 40 lb (18.1 kg) bag.
3. Mix mechanically with a high torque electric drill not to exceed 600 rpm with a paddle type mixing blade or an appropriately sized mortar mixer.
4. Mix for a maximum of 3 minutes to ensure a homogenous consistency. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the mix temperature.
5. For broom applications: Use 6 qt of TEC® Patch Additive (used at full strength) and gradually add the 40 lb (18.1 kg) bag of ProSpec® Vinyl Concrete Patch.

## APPLICATION

Apply when air and substrate temperature is between 40°F (4°C) and 100°F (38°C). For applications outside this range of temperatures, contact ProSpec® Technical Services.

1. Mix only the amount of material that can be placed in 20 minutes.
2. For placements greater than 2" (50 mm) in depth, preblend 16 lb (7.3 kg) of washed SSD of 3/8" (9.5 mm) graded aggregate per 40 lb (18.1 kg) bag or place in lifts to a maximum of 2" (50 mm) in depth.
3. To obtain a non-skid surface use a damp sponge, rubber float or a damp broom.
4. For brush or broom coat resurfacing, dampen the broom and spread the material to an even thickness.
5. If other materials are to be installed over the substrate, consult that manufacturer for recommendations.
6. Do not apply on substrates that are frozen or contain frost.
7. Do not bridge over existing expansion or control joints.

**Note:** For vertical applications use ProSpec® BlendCrete®.

## CURING

Do not wet the surface before the material has reached final set. Maintain a minimum of 40°F (4°C) for 48 hours after application. Product should be air cured unless hot and/or drying winds or low humidity are present. Under such conditions, lightly fog spray.

## CLEANING

Use water to clean all tools immediately after use.

## LIMITATIONS

- Do not retemper.
- Do not over trowel.
- Do not apply over substrates that are frozen or contain frost.
- Do not add any materials other than clean potable water or recommended additive.
- Do not apply over non-structural light weight concrete.
- Do not apply over concrete cured less than 7 days.

## COVERAGE

1 lb (0.45 kg) covers approximately 1 ft² (0.09 m²) @ 1/8" (3.17 mm).  
40 lb (18.1 kg) yields 0.36 ft³ (0.01 m³).

## 5. AVAILABILITY

To locate ProSpec® products in your area, please contact:

**Phone:** 800-832-9002

**Website:** [prospec.com](http://prospec.com)

## 6. WARRANTY

For warranty details, see your sales associate or [prospec.com](http://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](http://prospec.com).

## 9. FILING SYSTEM

Division 3

<sup>1</sup> 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

Set Time ASTM C191	
Final Set	60 - 70 minutes
Compressive Strength ASTM C109	
24 hours air cured	> 2,400 psi (16.5 MPa)
7 days	> 5,000 psi (34.5 MPa)
28 days	> 5,500 psi (37.9 MPa)
Flexural Strength ASTM C78	
7 days	> 1,400 psi (9.7 MPa)
28 days	> 1,850 psi (12.8 MPa)
Tensile Strength ASTM C190	
7 days	> 500 psi (3.4 MPa)
28 days	> 600 psi (4.1 MPa)
Shear Bond Strength ASTM C882	
28 days	>1,800 psi (12.2 MPa)
Length Change Percent ASTM C157	
Air cured	-0.003%
Splitting Tensile ASTM C496	
28 days	>450 psi (3.1 MPa)
Resistance to Deicing Salts ASTM C672	
25 cycles	0 visual rating
Abrasion Resistance ASTM C944	
28 days	2.3 g loss
Modulus of Elasticity ASTM C469: 2.46 x 10 6	

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

**Note:** Test results obtained under controlled laboratory conditions. Tested using 3 qt (2.8 L) of water. Reasonable variations can occur due to atmospheric and job site conditions.

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Data Sheets are subject to change without notice.  
For the latest revision, check our website  
at [prospec.com](http://prospec.com)



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