

1. PRODUCT NAME

ProSpec® Instant Hydraulic Cement

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® Instant Hydraulic Cement is a high speed, single component, cement repair material formulated for stopping active water leaks.

FEATURES & BENEFITS

- Can be applied underwater
- Interior and exterior
- Horizontal and vertical repairs
- Single component
- Non-metallic
- Shrinkage compensated
- Stops seepage leaks
- Rapid Cure Technology (RCT®)
- Above and below grade
- Initial set in 1 - 3 minutes
- Non-staining

USES

- Basements
- Elevator pits
- Conduits
- Sewer pipes
- Sea walls
- Static cracks
- Swimming pools
- Tunnels
- Storm drains
- Manholes
- Foundations
- Docks/piers/locks

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® Eligibility¹

- Regional Materials (MR-c5)
- Low-Emitting Materials (IEQ-c4.1)

PRODUCT ENHANCEMENTS



Rapid Cure Technology (RCT®)

Improves the strength, controls shrinkage and prevents efflorescence of our products without sacrificing workability or working time.

PACKAGING

Gray: 50 lb (22.7 kg) pail

SHELF LIFE

12 months from the date of manufacture when stored in the original, unopened container, away from moisture, 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. Area to be plugged must be free of unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance.
2. Dampen area to be plugged before applying product.
3. All holes or cracks should be opened to a minimum depth and width of ¾" (19 mm) to allow enough material for proper expansion and bond.
4. Square cut or undercut to avoid leaving a "V" shaped opening.
5. Remove excess debris and clean.

REFER TO:

ICRI Guideline 03730: Surface Preparation Guidelines for Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation

ACI 201.1R: Guide for Making a Condition Survey of Concrete in Service

ACI 224.1R93: Causes and Repair of Cracks in Concrete Structure

Note: It is the responsibility of the installer/applicator to ensure 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. Use clean potable water, clean mixing container and tools.
2. Do not mix more than can be put into place in 1 - 2 minutes.
3. Use 3.5 oz (0.1 L) of clean potable water per 1 lb (454 g) of material.
4. Mix to obtain a thick dough-like or mortar consistency, not to exceed 30 seconds.
5. Addition of cold water at high temperatures or warm water at low temperatures will aid in adjusting the set time.
6. Keep material cool and out of direct sunlight prior to application.

APPLICATION

Apply when air or substrate temperature is between 40°F (4°C) and 90°F (32°C). For applications outside this range of temperatures, contact ProSpec® Technical Services.

- Hold Instant Hydraulic Cement in gloved hand or trowel until it becomes slightly warm and then apply directly into opening and maintain constant pressure until final set (3 - 4 minutes).
- Smooth or mold material immediately after final set.
- A plastic bag can be used to carry material for underwater repairs.

CURING

- No special curing required.

CLEANING

Use water to clean all tools immediately after use.

LIMITATIONS

- Do not add any materials other than clean potable water.
- Do not use for non-treated aluminum applications.

COVERAGE

1 lb equals 15.0 in³ (245 cm³/0.45 kg).

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 3

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

Set Time ASTM C191	
Initial Set	1 - 3 minutes
Final Set	3 - 4 minutes

Compressive Strength ASTM C109 (Air Cured)	
1 hour	> 1,600 psi (11 MPa)
1 day	> 2,800 psi (19.3 MPa)
7 days	> 6,650 psi (45.9 MPa)

Tensile Strength ASTM C307	
7 days	> 350 psi (2.4 MPa)

Flexural Strength ASTM C78	
7 days	> 1,000 psi (6.9 MPa)

Linear Shrinkage ASTM C157	
1 day	0.010%
Density-wet lb/ft ³ (kg/m ³)	124 lb/ft ³ (1,986 kg/m ³)
Coefficient Thermal Expansion ASTM C 531	1.13 x 10 ⁻⁵ inches per degree F

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 3.5 oz (0.1 L) water per 1 lb (0.45 kg) powder. Reasonable variations can be expected 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



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