

# INSTANT HYDRAULIC CEMENT

## Description

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

## Features

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

## Uses

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

## Technical Data

### Set time ASTM C 191

|             |             |
|-------------|-------------|
| Initial set | 1-3 minutes |
| Final set   | 3-4 minutes |

### Compressive Strength ASTM C 109

|          |                       |
|----------|-----------------------|
| 1 hour   | >1,600 psi (11 MPa)   |
| 24 hours | >2,800 psi (19.3 MPa) |
| 7 days   | >6,650 psi (45.9 MPa) |

### Tensile Strength ASTM C 307

|        |                    |
|--------|--------------------|
| 7 days | >350 psi (2.4 MPa) |
|--------|--------------------|

### Flexural Strength ASTM C 78

|         |                      |
|---------|----------------------|
| 7 days  | >1,000 psi (6.9 MPa) |
| 28 days | >1,400 psi (9.6 MPa) |

### Density-wet lbs/ft<sup>3</sup> (kg/m<sup>3</sup>)

|  |
|--|
| 124 lbs/ft <sup>3</sup> (1,986 kg/m <sup>3</sup> ) |
|--|

### Linear Length Change ASTM C 157

|          |        |
|----------|--------|
| 24 hours | 0.010% |
|----------|--------|

### Coefficient Thermal Expansion ASTM C 531 (Inches per degree F)

|                         |
|-------------------------|
| 1.13 x 10 <sup>-5</sup> |
|-------------------------|

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

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## Preparation

1. Area to be plugged must be free of unsound concrete, grease, oil, paint and any other foreign materials that will inhibit performance.
  2. All holes or cracks should be opened to a minimum depth and width of 3/4" (19 mm) to allow enough material for proper expansion and bond.
  3. Square cut or undercut to avoid leaving a "V" shaped opening.
  4. Remove excess debris and clean.
  5. Dampen area to be plugged before applying product.
- 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

- 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](#)

## Mixing

1. Use clean potable water with clean mixing container and tools.
2. Do not mix more than can be used and put into place in 1-2 minutes.
3. Use approximately 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.

## Placement

1. Hold ProSpec<sup>®</sup> 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).
2. Smooth or mold material immediately after initial set.
3. A plastic bag can be used to carry material for underwater repairs.

## Curing

No special curing required

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## Color

Gray

## Yield

1 lb. equals 15.0 in<sup>3</sup> (245 cm<sup>3</sup>/0.45 kg)

## Packaging

50 lb. (22.7 kg) pail

## 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) within 24 hours of application. For applications outside this range of temperatures, contact ProSpec<sup>®</sup> Technical Service.
  - Use only clean mixing container and tools.
  - Do not add any materials other than clean potable water.
  - Do not use for non-treated aluminum applications.
- 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.



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## 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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