

# ACRYLIC PATCH

Single component, acrylic polymer modified, portland cement based, fast setting repair mortar.

## HOW IT WORKS

Acrylic Patch incorporates a dry acrylic polymer, portland cement, special graded aggregates and a high range water reducer to maximize strength gain and minimize downtime.

## APPLICATIONS

- ◆ Use to patch spalls, honeycombs, holes, cracks and surface defects with a minimum depth of 1/2 inch (13 mm).
- ◆ Use to patch concrete pipe, loading docks, floor joint shoulder spalls, steps, swimming pools, poured-in-place and precast walls, columns and beams.

## ADVANTAGES

- ◆ Bonds to existing concrete and masonry.
- ◆ Shrinkage controlled.
- ◆ Rapid set and fast strength gain.
- ◆ Can be used at thicknesses greater than 2 inches (51 mm) when extended with aggregate.
- ◆ Resistant to freeze-thaw related scaling.
- ◆ Resistant to water absorption and the damaging effects of deicing salts.
- ◆ Complies with ASTM C928 Rapid Hardening Type.

## ▲ PRECAUTIONS ▲

- ◆ Minimum thickness is 1/2 inch (13 mm). Do not feather edge. For applications with a thickness depth less than 1/2 inch (13 mm), use FEATHER PATCH.
- ◆ Do not place Acrylic Patch in lifts greater than 2 inches (51 mm) in thickness unless the product is extended 50% by weight with pea gravel to dissipate the heat of hydration.
- ◆ Do not mix more mortar than can be placed in 10 minutes or less.
- ◆ Do not add plasticizers, accelerators, retarders or additional cement.
- ◆ Do not apply if air or substrate temperatures are, or are expected to be, below 45° F (7° C) or above 85° F (29° C) within 24 hours of application.
- ◆ Do not apply product directly over dynamic cracks, control joints, expansion joints or isolation joints.
- ◆ Do not apply over concrete cured for less than 7 days.
- ◆ Do not retemper with water.

## USE INSTRUCTIONS

- ◆ Request current product literature, labels and material safety data sheets from manufacturer and read thoroughly before product use.
- ◆ Site environmental conditions, substrate conditions and construction have a major effect on product selection, application methods, procedures and rates, appearance and performance. Product literature provides general information applicable to some conditions. However, an adequate site test application by the purchaser or installer in advance of field scale use is mandatory (irrespective of any other verbal or written representations) to verify that product and quantities purchased can be satisfactorily applied and will achieve desired appearance and performance under intended use conditions.
- ◆ Prepare the area to be repaired in accordance with ICRI guidelines by square cutting all perimeter edges.
- ◆ Remove all unsound concrete, grease, oil, dirt, laitance and other foreign contamination from the surface to be repaired.
- ◆ Before placing Acrylic Patch, thoroughly saturate concrete bonding area with water for 4 hours. Remove excess water and allow concrete bonding surface to dry slightly before Acrylic Patch is placed.
- ◆ Pre-wet mixing containers and drain excess water prior to mixing initial batch.
- ◆ Add the appropriate amount of clean mixing water (see technical data) to mixer and slowly add Acrylic Patch while continuously mixing. Mix for 1-3 minutes or until a uniform consistency is achieved.
- ◆ Lifts greater than 2 inches (51 mm) in thickness must be extended with 50% by weight with clean, saturated surface dry (SSD), 3/8 inch (10 mm) pea gravel to dissipate the heat of hydration. Do not add additional water when extending with pea gravel.
- ◆ To avoid cold joints in large areas, mixing, placing and finishing operations must occur simultaneously.
- ◆ Once mixed, Acrylic Patch should be immediately placed and consolidated by tamping. The surface should be struck off with a screed to a level slightly above the surrounding concrete. Excess can be shaved off with a sharp trowel as Acrylic Patch sets.
- ◆ Application temperatures over 75° F (24° C) may require the use of cold or chilled mixing water to extend working time.



- ◆ Cure Acrylic Patch with wet burlap or ASTM C309 approved curing compound.
- ◆ Acrylic Patch can be placed in layers. Allow 4 hours damp curing between layers and rough finish each layer to facilitate bonding.
- ◆ Follow recommendations from ACI-305 for hot weather concreting and ACI-306 for cold weather concreting.

## WATER REQUIREMENT

| Acrylic Patch    | Mix Water       |
|------------------|-----------------|
| 10 lbs. (4.5 kg) | 0.8 qt. (0.7 L) |
| 20 lbs. (9.1 kg) | 1.6 qt. (1.5 L) |

Note: Jobsite conditions may affect actual quantities of water needed. Above mixing water recommendations are intended only as a guide.

## MIXED YIELD

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>Mixed Pail 23.3 lbs. (10.6 kg)</b> | Approx. 0.17 ft. <sup>3</sup> (4.8 L) |
|---------------------------------------|---------------------------------------|

## TECHNICAL DATA

| Test Method | Parameter                        | Test Results               |
|-------------|----------------------------------|----------------------------|
| ASTM C109   | <b>Compressive Strength</b>      | <b>Temp. 70° F (21° C)</b> |
|             | 1 Hour                           | 2,000 psi (13.8 MPa)       |
|             | 7 Days                           | 4,300 psi (29.6 MPa)       |
|             | 28 Days                          | 6,500 psi (44.8 MPa)       |
| ASTM C882   | <b>Slant Shear Bond 7 Days</b>   | 1,200 psi (8.3 MPa)        |
| ASTM C348   | <b>Flexural Strength 28 Days</b> | 1,170 psi (8.1 MPa)        |

Complies with ASTM C928 Rapid Hardening Type.

## PACKAGING

Packaged in 20 lb. (9.1 kg) resealable, plastic pails.

## SHELF LIFE

Shelf life is one year. Use before the "USE BY" date stated on product packaging.

## HANDLING/STORAGE

Read Material Safety Data Sheet (MSDS) prior to using. Contains portland cement and silica sand. Use proper safety equipment (gloves, goggles or glasses and dust masks). Store in a cool, dry area.

## AVAILABILITY & TECHNICAL SERVICES

In addition to corporate offices in Omaha, Nebraska, NOX-CRETE Products Group maintains regional offices and distribution centers in principal markets throughout the world. For source or technical information, call 800-669-2738 or 402-341-2080.

## LIMITED WARRANTY

### NOTICE-READ CAREFULLY

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