

CPD® FASTCRETE OH

DESCRIPTION

CPD® Fastcrete OH is a unique hydraulic cement based patching compound used for interior and exterior concrete repair. This product is mixed with CPD® Concentrated Latex Adhesive to achieve a “no slump” consistency for overhead, vertical and horizontal concrete patching. It is a fast setting high strength compound with exceptional bond strength and durability.

WHERE TO USE

Applications include precast and cast-in-place concrete abutments, balconies, bridges, curbs and gutters, drains, expressways, piers, piles, sewer pipes, soffits, swimming pools and foundations.

BENEFITS

- ‘no slump’ consistency
- fast setting
- high strength
- good bond strength
- non-toxic
- chloride free
- low permeability

PROPERTIES

Working Time 23°C (73°F).....7 - 10 minutes
 Initial Set 23°C (73°F).....20 -30 minutes

Compressive Strength

(ASTM C109-77) 21°C (70°F)

6 hours.....1.5 MPa (218 psi)
 1 day.....12.5 MPa (1,814 psi)
 2 days.....18.8 MPa (2,728 psi)
 3 days.....20.5 MPa (2,975 psi)
 7 days.....26.3 MPa (3,816 psi)
 28 days.....37.9 MPa (5,500 psi)

Slant Shear Bond Strength

(ASTM C882-91)

1 day.....3.2 MPa (464 psi)
 28 days.....6.5 MPa (943 psi)

Chloride Permeability

(AASHTO T277-831)

3.5 Coulombs

360 minutes/current .003 amperes

Length Change

(ASTM C157-91)

% Shrinkage

2 days.....0.013
 28 days.....0.117
 60 days.....0.158

Water Absorption

(M1-67-92)

% Weight Gain

24 hour immersion.....1.3

The above information is representative of actual production runs. Independent test results may vary from the above by approximately ± 10%.

APPLICATION

SURFACE PREPARATION

Concrete substrate must be clean, sound and free from dust, loose particles, oil, grease and all other foreign matter. If concrete is punky, chip down to sound concrete. Extremely dirty or heavily contaminated areas will require either mechanical or chemical cleaning.

PLACING

This is a fast setting patching material. Job procedures must be modified to minimize the time between mixing and placing product. All areas to be patched must be pre-dampened with water and receive a slurry bond coat consisting of CPD® Concentrated Latex Adhesive (dilute 1:1 with water) and CPD® Fastcrete OH. Scrub the slurry bond coat into the substrate filling all pores and voids. Allow the scrub coat to become tacky prior to applying mortar. Allow mortar to set then finish as desired. If multiple lifts are required, apply each lift as the material below it sets. Any mortar placed the previous day must be roughened to assure a good bond with additional mortar placements.

MIXING

For best results mix mechanically using a heavy duty slow speed drill equipped with a mud mixer blade. Add 4.6L (1.21 U.S. gallon) of CPD® Concentrated Latex Adhesive to a clean 18.9L (5 US gallon) pail. Add the CPD® Fastcrete OH and mix for two minutes. Place the mixed product as soon as possible after mixing.

FINISHING AND CURING

Finish by hand to a smooth even surface after placing. Troweling should be completed within 10 minutes after mixing. Materials may be shaved after initial set. Apply a quality curing compound such as CPD® Acrylic Cure and Seal (Water Based) immediately after final set to achieve ideal cure. Do not apply solvent based curing compounds.

LIMITATIONS

- not for use below 5°C (40°F)
- not recommended for structural grouting applications
- do not use without addition of latex
- minimum thickness 6.4mm (1/4")

COVERAGE

0.012m³ (0.42 ft³) per unit

STANDARDS

Approved for use on all MTO (Ministry of Transportation Ontario) Projects.

PACKAGING

- ? Part "A" (Powder) 20kg. (44 lbs.)
- ? Part "B" (Liquid Polymer) 4.6L (1.2 US gal) jug

CLEAN UP

Clean up all equipment with water.

STORAGE

Store on pallets in dry heated warehouse.

SHELF-LIFE

One year when stored in dry warehouse on pallets in original containers. Protect from moisture and freezing.

SAFETY PRECAUTIONS

Consult Material Safety Data Sheet (M.S.D.S.) for specific instructions. MSDS # 227.

WARRANTY

The recommendations made and the information herein is based on our own and independent laboratory experience, and is believed to be accurate under controlled conditions. However, no warranty or guarantee of accuracy is made because we cannot cover every possible application of product nor anticipate every variation encountered in weather conditions, job-conditions, methods used and types of surfaces on which the product is applied. The users shall make their own tests to determine the suitability of such products for any particular purpose.

CPD® makes no warranties with respect to this product, expressed or implied, without limitation, the implied warranties of merchantability or fitness for a particular purpose.

CPD®'s liability shall be limited in all events to supplying sufficient product to re-treat and/or repair the specific area to which CPD® product has been applied. CPD® reserves the right to have the true cause of any difficulty determined by accepted test methods. CPD® shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

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