



## DESCRIPTION

LABCRETE-FAST is a ready-to-use, fast setting, high strength patching material. It is non-metallic, non-staining, and non-toxic. LABCRETE-FAST can be used for both interior and exterior applications.

## WHERE TO USE

LABCRETE-FAST is particularly useful when downtime is at a premium and where low temperatures do not allow ordinary cement based patching compounds to properly cure. The rapid hydration of this product allows moisture sensitive coatings such as polyurethanes to be applied to the patched area in 24 hours under normal conditions.

Applications include repairing concrete floors in factories, warehouses, parking decks and ramps, loading dock areas and cold storage rooms, concrete bridge deck repairs and concrete runway repairs.

## BENEFITS

- Fast Setting
- High Strength
- Excellent Freeze-Thaw Resistance
- Very Low Permeability
- High Resistance To Sulphate Attack
- Non-Toxic
- Chloride Free

## HANDLING PROPERTIES

|  |                         |
|--|-------------------------|
| Compressive Strength**   |                         |
| (ASTM C109-77)@ 21EC(70°F)   |                         |
| Mortar Consistency   |                         |
| (4.5L water/25 kg bag/(1.19 U.S. gal/55 lb)                              |                         |
| 2 hours .....  | 25.6 MPa (3,720 psi)    |
| 4 hours .....  | 28.5 MPa (4,135 psi)    |
| 24 hours .....   | 46.2 MPa (6,700 psi)    |
| 3 days .....   | 54.5 MPa (7,900 psi)    |
| 28 days .....  | 65.5 MPa (9,500 psi)    |
| ** This mix was extended with an equal weight of washed 10mm pea gravel. |                         |
| Slant Shear Bond Strength  |                         |
| (ASTM C882-91) 4 L water/25 kg bag                                       |                         |
| (1.06 U.S. gal/55 lb)  |                         |
| 1 day .....  | 14 MPa (2,043 psi)      |
| 28 days .....  | 19 MPa (2,770 psi)      |
| Chloride Permeability  |                         |
| (AASHTO T-277-831) 23°C  |                         |
| 4L Water/25 kg bag   |                         |
| (1.06 U.S. gal/55 lb).....   | 208 Coulombs            |
| Water Absorption   |                         |
| (M1-67-92) % Weight Gain   |                         |
| 4 L Water/25 kg bag.....   | 3.67%                   |
| (1.06 U.S. gal/55 lb)  |                         |
| Salt Scaling   |                         |
| (MTO Method 1315-07) 50 cycles .....                                     |                         |
|  | 0.467 kg/m <sup>2</sup> |

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

## **SURFACE PREPARATION**

The concrete substrate to receive the patching compound must be clean and sound. Square out the patch area minimum 12 mm ( ½") and chip out all contaminated concrete. Soak patch area with water so that the concrete is thoroughly damp (no free standing water should be present). For substrate temperatures below 10°C (50°F) use a slurry bond coat of LABCRETE-FAST and water. For substrate temperatures above 10°C (50°F) LABCRETE, Concentrated Latex Adhesive, diluted 1:1 with water, can be mixed with LABCRETE-FAST powder to form a slurry bond coat mix. Scrub into the concrete then apply the mixed material as soon as possible . The mixed LABCRETE-FAST must be applied before the slurry bond coat sets

## **MIXING**

LABCRETE-FAST can be mixed with different quantities of water to yield a wide range of consistencies from trowel grade to pourable. This product can also be mixed with a dilute latex solution to improve certain physical properties if desired. As with all cementitious products, use only enough water to achieve the desired consistency. Do not exceed 5L (1.32 US gal) of water per 25 kg (55 lb) bag.

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## **CURING**

Wet curing of all patches and exposed grout areas is required as specified below. Curing by application of a film forming curing compound is not recommended as a direct substitute for wet curing. Once the LABCRETE-FAST has set (the material has a patchy-like finish) which is usually 30-45 minutes after placing @ 20°C (70°F), the product must now be wet cured for a minimum of 1-2 hours. This can be achieved by keeping the applied product wet covered with a layer of water, or using burlap that is continually kept saturated with water. If neither of these curing methods are possible, contact your LabCrete technical representative.

## **LIMITATIONS**

- Not For Use On Substrates Below 0°C (32°F)
- Not Recommended For Structural Grouting Applications
- Not Suitable For Acid Exposure
- Maximum Service Temperature 176°C (350°F)
- Minimum Thickness 13mm (1/2")

**COVERAGE**

0.014m<sup>3</sup>( 0.50 ft<sup>3</sup>) per 25 kg (55 lb) bag.

**STANDARDS**

Approved for use on all MTO & MTQ (Ministry of Transportation Ontario & Quebec) projects.

**PACKAGING**

LABCRETE-FAST is packaged in 25 kg (55 lbs.) multi wall bags and 4.5 kg (10 lb) plastic pail.

LABCRETE Concentrated Latex Adhesive is available in:  
3.79L (1 U.S. gal), 18.9L (5 U.S. gal) and 208L (55 U.S.  
gal) containers.

**CLEAN UP**

Clean all mixers and tools with water before product hardens.

**SAFETY PRECAUTIONS**

Consult the Material Safety Data Sheet (MSDS) for specific instructions.

**STORAGE**

May be stored short term anywhere under tarp on pallets as long as the product is kept dry. Dry heated warehouse storage is recommended for extended storage.

**SHELF LIFE**

One year when stored in dry warehouse on pallets in original bags. Protect from moisture.

**WARRANTY**

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