

CHEMfix 120LE

High Quality Bonding Agent with Water Resistant and Mortar Improver Admix

Description

CHEMfix 120LE is an emulsion of synthetic blended rubber co-polymer based latex specially developed to improve the properties of cementitious compositions. **CHEMfix 120LE** when used in combination with standard quality of ordinary Portland cement, it enhances the mechanical properties such as bonding (adhesion) with various building materials, flexural, compression and impact strength. **CHEMfix 120LE** improves the thin section fragility of cement when used as coating. It is resistant to hydrolysis hence can be used for external applications too.

ADVANTAGES

- Increases flexural and tensile strength
- Compressive strength is comparable with concrete.
- Reduced shrinkage, water permeability.
- Good bonding between old & new concrete.
- High strength mortar with good resilience
- Durable structural repairs, restoration & waterproofing
- Improved abrasion resistant flooring

FEATURES

- Simple to use as it is a single component.
- Cures to a hard, tough & wear resistant surface.
- Bonds (adheres) strongly to the most surface types.
- Can be applied to an uniform thickness coating on horizontal and vertical surfaces.
- Allows trapped water (vapours) to escape and prevents blistering and adhesion failures.
- Makes cement mortar or coating compact which prevents salt penetration into the concrete.
- It is unaffected by UV light and prevents fading of concrete.
- It acts as anti-corrosive for steel. **CHEMfix 120LE** is highly durable even in continuous contact with water.
- It is resistant to water, dilute acids and alkali solutions.
- It is non-flammable & non-hazardous. Does not evolve toxic gases when exposed to fire
- Non-toxic to human being.
- Most properties improves on ageing
- Resistant to fungus and micro-organism growth.



Technical Datasheet

USAGE

Waterproofing of building, toilets sunken portion basement.

Waterproofing of water tanks and swimming pools.

Repairing of concrete and masonry walls-internal, external & terrace roofs by cement mortars.

Renovation and protection of concrete against corrosion and salt petre.

As a bonding agent for old concrete to new concrete, industrial floor or floor duct nosing repair.

TECHNICAL INFORMATION

| | |
|---------------------------|---|
| Appearance | Single component milky white pourable liquid |
| PH value at 30° C | 7.5 to 11 |
| Viscosity on Fond cup B-4 | 100 CPS Max.M At 30°C Viscometer spinle 1.12R.P.M at 250C |
| Specific Gravity | 0.99 to 1.03 |
| Durability with water | Diluteable in any Proportion (As per application requirement) |
| Mechanical Stability | Good |
| Compatibility | Compatible with all types of cement & concrete admixtures |
| Storage Stability | Excellent |
| Toxicity | Non – Toxic |

SURFACE PREPARATION

Surface preparation is the most important step before application to achieve desired results and avoid failures.

The surface should be absolutely dry, free from dust coatings, loose particles, fungus, moss, oils, greases, mould-release agents & dirt. Clean the surface by scrapping, sand blasting to remove dirt & loose particles.

Treat surface with 5%-10% hydrochloric acid, followed by complete neutralization with water, which will improve bonding of the coating. Oils, greases & mould-release agents can be cleaned with solvents.

DIRECTION FOR USE

1) As a Bond Coat:

Plaster to Plaster, Concrete to concrete, Plaster over brick masonry in the ratio of 1:1:4

(CHEMfix 120LE : water : cement) Prior to mixing prepare a mix of Latex and water and add cement to it.

a) METHOD

1. On a clean & well prepared surface apply CHEMfix 120LE cement slurry (CHEMfix 120LE : Cement: 1: 1 Part by weight).

2. Apply CHEMfix 120LE mortar by trowel to achieve uniform & smooth finish. Application of CHEMfix 120LE modified mortar should be very fast as it cures fast.

3. Moist cure for 24 hours & then allow it to cure.

b) PREPARATION OF MORTAR

Cement : 1.00 Kg

Sand : 2.50 Kg

Water : 0.16 Kg

CHEMfix 120LE : 0.20 Kg

DEFOAMER (if required): SILICONE TYPE

(Dosage as per requirement)

- Deformers of silicone type (proprietary products) can be used but dosage depends upon the method of mixing & manufacturers recommendations. Adjust quality of water for workability if required. Do not add excess water.
- Increase the proportion of **CHEMFIX 120LE** for more demanding situations.

SPECIFICATIONS STRUCTURE REPAIR

a) Remove all sealed / loose concrete to reach up to the concrete or reinforced structure and remove all loose dust by means of wire brush.

b) Remove all dust particles by means of high jet water.

c) Apply one coat of **CHEMFIX 120LE** with cement (Ratio of **CHEMFIX 120LE**: cement :1:1) on cleaned reinforcement & do not allow to dry. Coverage: 25 ± 1 sq.ft. / Liter /coat

e) Now prepare polymer modified mortar as given below and apply it on entire concrete substrate at 10mm or 25mm thickness in one layer as required.

Cement : 50 Kg

Sand : 125 Kg

Water : 8-10 Kg.

CHEMFIX 120LE : 8-10 Kg.

Apply above polymer modified mortar by hand pressing over tacky **CHEMFIX 120LE**

f) Allow to cure above polymer mortar for one day.

CURING

Moisture cure for 24 hours allow to dry out

CLEANING

Tools & equipments should be cleaned with water immediately after use.

SHELF LIFE

24 months from the date of manufacture.

Shake well before using after prolonged storage

PACKING

10 Liters jerry can & 210 Liters Drum.



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