

ChemBonding Agent

Structural Bonding Agent for Bonding Old and New Concrete

Customized Construction Chemicals

Description: - ChemBonding Agent ChemBonding Agent is a two component solvent free epoxy bonding agent composed of liquid epoxy resin and hardener. It is used for bonding of structural concrete new to old concrete and bonding agent for bricks and steel components because it gives excellent bonding properties to freshly mixed concrete/mortars, glazed bricks, tiles, etc.

Charachtracis Parameters

It conforms to specification prescribed in: ASTM 881-87, Type II, Grade-2 Class B and C.

Parameters	Specification
Appearance Part A Part B	White Colour Liquid Black Colour Liquid
Mixing Ratio Mix Density at 27° C Mix Color	Base : Hardener = 2 : 1 (By Weight) 1.0 - 1.20 gm/cc Gray Colour Liquid
Pot Life at 27° C, Minutes	30 – 40
Tack Free Time at 27° C, Hours	1-2
Tensile Strength After 7 day's	≥12 mpa
Compressive Strength	≥ 60 mpa
Flexural Strength , After 14 day's	20 - 25 mpa
Shear Strength, After 14 day's	≥10 mpa

Advantage/Features

- ❖ Non-toxic.
- ❖ High durable bond.
- ❖ Can be applied on moist surface also.
- ❖ Can be applied easily by brush for bonding old to new concrete, mortar.
- ❖ Excellent adhesion to most building materials.
- ❖ Suitable open time to complete the work easily.
- ❖ Minimum shrinkage as compared to polymer modified cementitious bonding agents
- ❖ Excellent water resistance and sealing property.
- ❖ Provides strong bond between new concrete to old concrete.

Application

- ❖ For bonding old to new concrete, mortar.
- ❖ To extend or repair structural concrete.
- ❖ It is used to bond freshly mixed concrete or mortar, glazed bricks, tiles, steel or other structural material.
- ❖ Remove laitance, dirt and dust by wire brushing, scrapping, air jet, cabling or grit blasting.
- ❖ Old concrete should be 28 day's old.

Application Methodology

Surface Preparation

- ❖ The surface must be thoroughly cleaned and prepared.
- ❖ Remove all loose particles, dirt, dust, laitance, oils, grease and other foreign materials for best results.
- ❖ Remove laitance, dirt and dust by wire brushing, scrapping, air jet, cabling or grit blasting.
- ❖ Old concrete should be 28 day's old.

Mixing

- ❖ Take pre-weighted base & hardener and mix properly till uniform gray colour & consistency achieve.
- ❖ Both base and hardener must be mixed thoroughly with a low speed mixer (150 to 250 rpm for about 3 to 5 minutes to get uniform gray colour & consistency.

Application

- ❖ Apply mixed material by brush on the prepared surface.
- ❖ Overlay of concrete and mortar has to be placed on ChemBonding Agent when it is tacky.
- ❖ If ChemBonding Agent dried, apply a second coat before placing the concrete and mortar.

Precautions & Limitations

- ❖ ChemBonding Agent should be applied on old concrete surface.
- ❖ Always apply new concrete and mortar when applied ChemBonding agent get tack free.
- ❖ If applied ChemBonding Agent gets fully dry then apply second coat over it.

Cleaning: -Clean all tools and equipment immediately after use with ChemCleaner. Otherwise hardened material can only be removed mechanically.

Health & Safety

- ❖ Before handling wear Nose mask, Hand gloves, Helmet & Goggles etc.
- ❖ Avoid contact with skin / eyes, and avoid swallowing.
- ❖ If contacted with skin, clean immediately with the ChemCleaner.

Packing: - 600 gm (400 gm Base: 200 gm Hardener) And 1.2 kg (800 gm Base: 400 gm Hardener) container

Coverage: - 600 gm will covers approximately 10-30 square feet and 1.2 kg will covers approximately 20-60 square feet depending on the porosity of the substrate.

Shelf-Life and Storage Condition: - Shelf life is 12 months from the date of manufacturing when stored with undamaged and unopened original sealed container. Keep in dry and cool place & temperature should be +10°C to + 30°C.

Our Other Products Ranges Are:-

- Concrete Admixtures
- Sealants & Primer
- Industrial Floorings
- Concrete Repair Products
- Mould Release Agents
- Adhesive for Tiles, Marbles and Stones
- Concrete Curing Compounds
- Waterproofing Chemicals
- Industrial Grouts
- Concrete Hardeners
- Concrete Bonding Agents
- Joint Filler Grouts for Tiles, Marbles and Stones

Offshore

Important Note:- Offshore Chemox products are confirming standard manufacturing specification and procedure. Offshore Chemox products are given in good faith based on Offshore Chemox current knowledge and experience of the products when properly stored, handled and applied under normal conditions. Offshore Chemox product are confident against defective materials and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Offshore Chemox endeavors to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

OFFSHORE CHEMOX

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