



# HYDRO EPOXY



## HIGH RESISTANCE, EPOXY BONDING AGENT

Hydro Epoxy is a thixotropic, epoxy paste system, that complies with the performance requirements for structural bonding.

### Green Building Rating



Mineral  $\geq$  30%



Low Emission



Low Ecological Impact



Health Care



Water Based

### Areas of Application

- For structural bonding between pre-fabricated concrete structures and reinforced or pre-stressed concrete elements
- For structural bonding of steel plates and pultruded composite plates to reinforced and pre-stressed concrete
- For waterproofing inside the watertanks where hydrostatic / negative pressure exists.

### Features & Benefits

- Eco-friendly
- Excellent adhesion to concrete, steel and composite materials
- Organic mineral adhesive for the structural bonding of concrete, steel and composite material elements
- Resistant to environmental chemical aggression and suitable for all exposure.
- Safeguards the health of operators.

### Method of application :

Structural bonding of prefabricated concrete structures to reinforced and prestressed concrete elements, and of steel slabs , pultruded plates and composite fabrics to reinforced and prestressed concrete elements Surface filling of cracks prior to injection of fluid mortars for structural consolidation

#### Preparation

Hydro Epoxy is prepared by mixing component A with component B (preset ratio 1 : 1 in the buckets) until a soft paste of uniform colour is obtained. Mix by hand or using a low-rev, mechanical stirring device. Workability times may vary according to the density of the mixed paste and the temperature of the environment and substrate: the higher the temperature or the larger the mixture, the lower the workability time.

### Application

1. Before applying Hydro Epoxy first brush or preferably sandblast the concrete substrate to roughen and clean it, removing any remaining dust, grease, oil or other contaminants until the substrate is clean and cohesive.
2. Once all rust, oil and paint has been removed, metal surfaces must be prepared to standard by first manually cleaning them or by mechanical cleaning (sandblasting) Hydro Epoxy is applied with a spreader.

3. We recommend spreading Hydro Epoxy on both surfaces to be bonded, making sure the product penetrates well in more uneven parts of the substrate.
4. To strengthen cracked structures by first opening the crack using a flexible joint, removing any dust under pressure into previously drilled injection holes. Subsequently, the crack can be filled with Hydro Epoxy through injection tubes inserted into the same holes as before.

#### ■ **Precautions & Limitations :**

Use at temperatures between +5 °C and +30 °C

Apply on dry substrates

Do not apply to dirty or flaking surfaces

Protect surrounding surfaces from accidental smearing and staining, which would be difficult to remove clean tools immediately after use with solvents (ethyl alcohol, toluene, xylene)

#### ■ **Technical Information**

Appearance

**Part A grey paste / Part B beige paste**

Volumetric mass

**Part A 1650 kg/m<sup>3</sup>– Part B 1720 kg/m<sup>3</sup>**

Mixing ratio

**Part A : Part B = 1 : 1**

Viscosity of the mixture

**1000000 mPa's (rotor 95 RPM 2.5)**

Density of the mixture

**Brookfield method  
1700 kg/m<sup>3</sup>**

Pot life(1 kg):

At +5 °C

**≥ 100 min**

At +23 °C

**≥ 20 min**

At +30 °C

**≥ 15 min**

Temperature for application from

**+5 °C to +30 °C**

#### ■ **Coverage :**

1.7 kg/M<sup>2</sup> per mm of thickness

#### ■ **Packing**

Part A 5 Kg Bucket & part B 5 Kg Bucket.

#### ■ **Shelf life & storage**

12 months in the original packaging Protect from frost, avoid direct exposure to sunlight and sources of heat

#### ■ **Health & safety Precautions :**

Always use protective gloves and eyewear both during mixing and during application avoid any contact with the skin. Use in a well-ventilated environment

**DISCLAIMER** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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