

## CICO BOND EPO

### High Strength Epoxy Bonding Agent

**CICO BOND EPO** is two component 100% solid epoxy resin system comprising of **Pack-A (Resin) and Pack-B (Hardener)**. It is mainly used to bond old to old concrete or new concrete or mortar to old concrete, glazed bricks, tiles.

**Pack –A (Base white in colour)**

**Pack –B (Hardener black in colour)**

#### USES

**CICO BOND EPO** provides a bond of far better strength than the Bond/Tensile strength of concrete itself, and suitable wherever structural bonding of new to existing old concrete is carried out.

It is used as adhesive to bond old concrete to new concrete, stone cladding, metal plates, etc.

#### FEATURES

- Very high mechanical strength
- Moderate pot life suitable summer as well as winter season
- Thixotropic- ensures less sagging and positive contact with the substrates
- Excellent bond strength on dry as well as damp concrete surfaces.
- Supply in two different colors (Pack A and Pack B) for easy identification and ensure proper mixing.
- No solvent is used therefore no harm to the environment.
- Pre-measured packs to avoid wrong mixing ratio at site.

#### METHOD OF USE

##### Surface Preparation

Surface should be cleaned, dry and free from loose particles, oil, grease or other foreign materials. Deep contaminated concrete or metal should be thoroughly cleaned by wire brush. Dust can be removed by compressed air.

##### Mixing

- Stir the base and hardener separately. A suitable power driven mixer / stirrer are recommended for uniform mixing.
- Add Hardener Part (Pack-B) to the base container and mix for 20-40 seconds or until a homogeneous color is obtained.
- Wait for 2-3 minutes for induction and to release entrapped air from the epoxy mix. Remix the mass again before apply it.

##### Important Note

**All packs are pre-weighed and ready for onsite mixing. Do not use fraction of any PACK. Always use whole packs for best results. Do not mix more than 4kg at a time. Mixing of higher quantity will reduce the handling time considerably.**

##### Application

Apply a thin layer of **CICO BOND EPO** with brush / squeegee to the freshly cleaned existing surface. Place fresh concrete/mortar while it is still 'tacky'. If there is a delay to lay the concrete and applied **CICO BOND EPO** lost its 'tackiness' then a second coat of **CICO BOND EPO** shall be applied prior to placing the freshly mixed concrete or mortar.

##### Important Note:

**While application, the substrate temperature should be at least 8°C but not above 40°C.**

##### Curing

Good concrete practice should be followed for curing of freshly laid concrete.



**TECHNICAL DATA**

<b>Appearance of Mixed Material (Pack-A+B)</b>	Grey coloured viscous compound
<b>Pot Life at 30°C</b>	30 minutes minimum
<b>Application Temperature Range</b>	+8°C to +40°C
<b>Tack Free Time at 30°C</b>	Not less than 2 hours
<b>Non Volatile Matter, % (w/w)</b>	98 (minimum)
<b>Specific Gravity</b>	1.2 ± 0.2
<b>Compressive Strength, kg/cm<sup>2</sup>, 7days, at 30°C</b>	600 minimum
<b>Shear Bond Strength, kg/cm<sup>2</sup>, 7 days, at 30°C</b>	35 (Concrete failure)
<b>Pull off Bond Strength, kg/cm<sup>2</sup>, 7days, at 30°C</b>	a) On concrete (M-45 grade) : 30 minimum b) On Metal : 80 minimum
<b>Coverage</b>	250-500g /m <sup>2</sup> per coat depending upon the surface porosity, texture and working temperature.
<b>Flash Point</b>	Not applicable
<b>Shelf Life</b>	18 Months from the date of manufacturing when stored in sealed original packing in cool and dry place at a temperature range of +5 to 30°C and away from direct sunlight

**PACKING**

**CICO BOND EPO** is available in 0.5 Kg, 1 kg and 4 kg Kits.

**HANDLING PRECAUTION**

**CICO BOND EPO** should not come in contact with bare soft skin and eyes.

Wear gloves and safety glass during material handling to avoid direct contact. In case of contact with skin wash it with soap and water. In case contact with eyes splashes with plenty of fresh clean water. If irritation persists, seek medical help.

Do not swallow. If swallowed accidentally, seek medical help immediately. Do not induce vomiting.

Do not smoke nearby the application area. In case of fire, use CO<sub>2</sub> or foam based extinguisher.

**SATORAGE**

Store in a cool dry place in the temperature range from 5°C to 30°C in sealed condition. Keep away from naked flame and direct Sun Light

**CLEANING**

All tools shall be cleaned with suitable thinner like MEK, MIBK, and Xylene.

**Important Note:**  
All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer; user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product data sheet.

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