CIKObond EPL

Epoxy resin based concrete bonding agent

Description

CIKObond EPL is a solvent free two component epoxy based bonding agent for concrete, to bond old to new structural concrete. It can also be used as a bonding agent for various kinds of repair needs on different types of materials.

CIKObond EPL is based on liquid epoxy cured with special grade hardener to achieve a longer working time. It provides excellent adhesion and bonding properties.

Properties

- Two component epoxy based slow curing bonding system.
- Small packs, easy to mix and apply.
- Exhibits excellent bond between new to old concrete.
- Extended working time to place formwork and reinforcement after applying bonding agent.

Application Areas

CIKObond EPL is suitable to use for internal and external applications.

- Bonding old structural concrete to new concrete.
- Used as grouting and repair mortar by extending with inert filler

Applicable standards

CIKObond EPL complies with the specifications of ASTM C 881.

Coverage / Yield

CIKObond EPL will provide a theoretical coverage of 9 to 10 m^2 per litre at a dry film thickness of 100 microns.

Note: The coverage depends on the floor condition and finish. Consult CIKO technical service department for assistance.

Physical properties

Form	Two component system Part-A: Liquid Part-B: Liquid
Mixing ratio	Pre-weighed packs
Colour	Pale brown
Consistency	Grade2: Medium Viscosity
Full cure	7 days at 35 °C
Viscosity ASTM D2196	2 to 5 Pa.s
Slant shear Bond Strength ASTM C-882	≥10 N/mm²
Water Absorption ASTM D570	<1%

Application instructions

Surface preparation

The substrate surface must be free from dust and loose particles. Expose sound concrete surface by grit blasting or any other means. All contamination should be treated well before application of CIKObond EPL. The extended reinforcement or dowel bars must be cleaned and fixed properly.

Mixing

Mix the base [Part-A] and hardener [Part-B] components of CIKObond EPL thoroughly using a heavy-duty slow speed drill-paddle assembly for three to five minutes and ensure a homogenous mix.

Application method

Properly mixed materials should be spread or filled over the cleaned surface using stiff brush or spray applied on entire area without leaving any gaps. After ensuring proper application, fresh concrete must be poured during the gel time period of CIKObond EPL. In case of failure in placing fresh concrete or mortar within the gel time of CIKObond EPL, the coating must be removed by mechanical means and shall be reapplied.

Packaging
CIKObond EPL is available in 4.0 litre packs.

Shelf life
CIKObond EPL has a shelf life of 12 months if stored in accordance with CIKO instructions.

Storage
CIKObond EPL should be stored under enclosed shaded area at temperatures between 5 – 35 °C.

Precautions
CIKObond EPL should not be applied at temperatures below 5 °C.

Health & safety
CIKObond EPL should not come in contact with eyes or to be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice. Refer Material Safety Data Sheet for further details.

Technical Support
For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off-site services to end users, specifier and contractors.

More from CIKO Middle East
A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- *Concrete admixtures and additives*
- *Waterproof and Damp-proof coatings*
- *Surface Treatments*
- *Walls, Flooring and Toppings*
- *Grouts and anchors*
- *Tile Adhesives and Grouts*
- *Concrete Repair Materials*
- *Adhesives and Bonding Agents*
- *Protective Coatings & Sealers*
- *Joint Sealants and Moulding compounds*
- *Sports Flooring*
- *Plastering Mortars*
- *Paints*

Legal Notice and Warranty
CIKO warrants this product to be free from manufacturing defects and to meet the technical properties stated in the current Technical Data Sheet, if used as directed within its shelf life. Satisfactory results depend not only on quality of product but also on many factors beyond our control. CIKO makes no other warranty or guarantee, express or implied, including warranties of merchantability or fitness for a particular purpose with respect to its product. The sole and exclusive remedy of purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, at the sole option of CIKO. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by purchaser. CIKO will not be responsible for any special incidental, consequential including lost profits or punitive damages of any kind. Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on CIKO's present knowledge and experience. However, CIKO assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third-party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. CIKO reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified expert.

All CIKO products are manufactured under a strict management system conforming to and in compliance with requirements of international standards of Quality, Environmental, occupational Health and Safety ISO 9001, ISO14001 and ISO45001.

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