

CIKOcem PUR-Cov



Four-Components Polyurethane-Cement Based Coving and Detailing Mortar

Description

CIKOcem PUR-Cov is the new generation of polyurethane cement by CIKO ME, four components, vertical grade polyurethane-cement based mortar used for coving, detailing, and vertical rendering designed for heavy-duty industrial & commercial applications applied between 3 and 9 mm. CIKOcem PUR-COV exhibits excellent resistance to thermal shock, impacts, abrasions, and chemicals.

The system consists of liquid components [Parts-A], [Part-B] and powder components [Part-C] filler, [Part-D] colour pigment available in standard and various colours.

Benefits & Advantages

- Provide a seamless detailing for well terminated floor system.
- Exhibits excellent adhesion to concrete substrates.
- Retains physical properties through wide temperature range from -40°C up to 120°C depending on total applied thickness.
- Non-taint having low VOC.
- Resistant to high abrasion and physical impacts.
- Resistant to wide range of chemicals with a non-staining effect.
- Reduce and eliminate the microbial growth leading to a hygienic medium
- High softening point
- Trowel-able consistency and easy to apply

Application Areas & Uses

CIKOcem PUR-Cov is a coving mortar suitable for:

- Food Processing Plants
- Wet and dry process areas
- Hot and cold process and storage areas
- Chemical process plants & laboratories

Physical properties @ 25°C

| | |
|-----------------------------------|------------------------------------------------------------------------------------------------|
| Form | Four Components System Part A: Liquid Part B: Liquid Part C: Powder Part D: Powder |
| Colour | Wide range |
| Mixed Density (fresh) | 2.15 ± 0.05 Kg / L |
| Mixing ratio | Pre-weighed packs |
| Pot life @ 25°C | 20 to 25 minutes |
| Curing Time | Minimum: 5 hours Maximum: 24 hours |
| Application Thickness | 3 – 9 mm |
| Shore D Hardness ASTM D2240 | 80 - 85 |
| Compressive Strength ASTM C579 | ≥ 35 Mpa @ 7 days |
| Pull off Bond Strength ASTM D7234 | Concrete Failure / 1.5N/mm ² |

Coverage / Yield

15 kg of CIKOcem PUR-Cov yields 7 L of fresh material

Note: The coverage depends on the coving details and dimensions. The given coverage figures are theoretical; actual consumption depends on the floor condition, wastage, surface profile and finish. Consult CIKO technical department.

Application instructions

Surface preparation

The concrete surface should be fully cured achieving a minimum compressive strength and pull off strength of 25 MPa and 1.5 N/mm² pull off respectively.

The concrete surface should be free from dust and loose particles. In case of traces of oil and grease, the surface shall be treated by acid etching, sand/grit blasting, or any other suitable mechanical means.

Curing compounds and sealers, if present, must be removed by mechanical grinding using diamond disk. The final step in cleaning should be complete removal of all residues with a vacuum cleaner or water pressure washing.

All cracks and holes must be repaired with one of the suitable CIKO's wide range of concrete repair materials. Consult CIKO technical service department for further support.

Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred.

Prepare the circumference of the floor, all types of floors to wall connections and right angles must have grooving / anchor joints for the coving mortar. The height of the skirting and coving shall be designed as per requirements depending on the service in which the floor will be subjected to grooving / anchor joints parallelly two straight lines in both planes floor and wall. The width and depth of the groove is recommended to be at least twice in width and depth the full system thickness.

Mixing

CIKOcem PUR-Cov is a ready to mix four components material that requires only suitable heavy-duty high-speed drill-mixing paddle assembly. Mix the liquid [part-A] in its original packing to achieve a homogenous mixture and colour then dispense it in a clean container of minimum capacity of 20 L. Add [part-B] while still mixing for minimum 1 to 2 minutes. Dispense gradually [part-C] and further mix for a total of 3 to 4 minutes until a homogenous mixture is achieved.

Application

Primer application:

Priming is required prior for the application of CIKOcem PUR-Cov using CIKOpoxy prim wide range of products.

Ensure that the primer is still tacky before the application of CIKOcem PUR-Cov or broadcast with CIKO ASG and allow to cure to form non slip surface. In case the primer becomes tack free, reapply a second coat.

Application of CIKOcem PUR-Cov

Apply the well mixed homogenous mixture of CIKOcem PUR-Cov over the prepared surface and compact the material to the required thickness of 3 to 9 mm.

The detailing profile to be finished with a coving trowel or steel float. To close any surface voids, perform light brushing while the mortar is still workable. For further details regarding detailing, refer to the method statement.

Allow minimum cure of 24 hours, depending on the prevailing ambient conditions.

For maximum sealing and full coverage of the cove, apply two coats of CIKOcem PUR-SC at 500 microns DFT.

Recommendations

Mock-ups and field test areas are required in order to validate performance and appearance related characteristics to ensure system performance as specified for the intended use, and to determine approval of the coating system including but not limited:

- Colour
- Inherent surface variations
- Wear and abrasion resistance
- Chemical resistance and stain resistance

Job site variability must be confirmed and assured including but not limited to:

- Surface preparation
- Sunlight & exposure
- Relative humidity
- Dew point temperature
- Ambient and substrate temperature

CIKOcem PUR-Cov is recommended for professional use only

Curing

Protect the applied material for at least 24 hours from light foot traffic, high moisture and water flow.

Cleaning

Used tools must be well cleaned with CIKOsol or CIKOsolvent 20 directly after usage.

Packaging

CIKOcem PUR-Cov is available in 15 kg kits consisting of Parts A, B, C and D.

Storage

CIKOcem PUR-Cov should be stored under cool and enclosed shaded area between 5°C and 25°C away from direct sunlight, moisture and water.

Shelf life

CIKOcem PUR-Cov has a shelf life of 6 months if stored in accordance with CIKO instructions.

Precautions

- At temperatures exceeding 35°C, the workability and pot life of the mixed material is reduced and affected.
- Do not apply the material under direct sunlight. The cured material will discolour when subjected to UV rays.
- For thicknesses higher than 9 mm consult CIKO technical service department
- During application, the relative humidity shall not exceed 75%
- During and within 12 hours of application, ensure that the ambient and substrate temperatures are between 10°C and 35°C.
- Surface temperature is at least 3°C above dew point temperature.
- It is recommended to use a single batch of CIKOcem PUR-Cov for a continuous wet application to ensure colour uniformity.
- CIKOcem PUR-Cov does not withstand negative water pressure.
- Do not apply CIKOcem PUR-Cov over soaked concrete or standing water

Health & safety

Use standard dust mask to avoid inhalation of dust. Powder when wet or moist can cause burns to skin and eyes which should be protected during use. If comes in contact with skin/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
- Waterproofing and damp-proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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 experts.

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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.



ص. ب رقم : ٢٩٥ ، الدوحة - قطر
ت : +٩٧٤ ٤٤١١ ٤٧٩٤ ، ٤٤١١ ٤٧٩٠ ، ٤٤١١ ٤٧٨٧
فاكس : +٩٧٤ ٤٤١١ ٤٧٩٢

P.O.Box : 295, Doha, Qatar
T.: (+974) 4411 4787 / 4411 4790 / 4411 4794
F.: (+974) 44114792
E-mail: enquiries@cikome.com