

CIKOficro Topping



Two components liquid latex modified micro cement for decorative systems

Description

CIKOficro Topping is the new generation of decorative systems consisting of a pigmented micro cement powder component and a liquid latex component. Once the two components are mixed at a given ratio, it forms a slurry and putty coat used as a decorative topping layer over walls, floors, and many other surfaces.

CIKOficro Topping is designed to be applied over several types of substrates in 2 to 3 thin layers not exceeding a total thickness of 2 mm to provide a decorative and innovative, patterned, or random architectural finish.

Properties & Advantages

- Two components system easy to mix and adjust consistency
- Easy to mix on site.
- Excellent bond strength over several types of substrates.
- Self-priming
- Abrasion resistant
- Chemical, abrasion and stain resistant subject to correct selection of sealers.
- Suitable for indoor and outdoor applications
- Compatible with solvent and water-based sealers, hardeners, and water repellents
- Fast drying allowing turnaround
- Available in wide range of colours.
- Can be applied following several application techniques resulting in a variety of architectural finishes

Application Area & Uses

CIKOficro Topping is a suitable decorative skim coating system suitable to be used as an aesthetically pleasing architectural finish in both commercial and residential segments as:

- Interior walls, floors and ceilings
- Columns, stairways, architraves and facades.
- Furnitures and shelves made of concrete, cement board and MDF wood

- Counter tops
- Wet rooms wall such as kitchens and bathrooms
- Decorative or architectural fine finishes in shops, residential buildings, hotels, showrooms.

Figure 1: CIKOficro Topping patterned with effects.



Physical properties

Form	2 components system Powder Part Liquid Part
Colour	Wide range of colours
Pot life and working time	45-60 mins @ 25°C 30-40 mins @ 35°C
Mixed Densities (Powder: Liquid)	1.85 ± 0.02 Kg/L (2:1) 1.72 ± 0.02 Kg/L (1.5:1) 1.39 ± 0.02 Kg/L (1:1)
Pull off Bond Strength to ASTM D7234	≥2 N/mm ² (Concrete) ≥1.5 N/mm ² (Epoxies) ≥0.7 N/mm ² (Cement board)

Coverage / Yield

CIKOMicro Topping yields and cover:

Mixing Ratio (P: L)	Weight mixing proportion (Kg:Kg)	Total Weight of Mixed Materials (Kg)	Coverage of mixed materials (m ²)	Maximum Thickness (mm)
(2:1)	20:10	30	16-16.4	1mm
(1.5:1)	15:10	25	14.4-14.7	1mm
(1:1)	10:10	20	28.4-29	0.5 mm

Note: The coverage depends on the substrate condition, finish, mixing ratios and wastage. Consult CIKO technical service department for further guidance.

Application instructions

Surface preparation of cementitious substrates

Clean the surface to remove loose and unsound materials by water blasting or any other suitable mechanical means. Detergent scrubbing shall be used to clean oil or grease. Diamond disk mechanical grinding is recommended to adjust floor level and remove cementitious laitance and weak layers. Wet the surface with ample water until achieving a surface saturated dry (SSD) condition.

Surface preparation of existing coatings and paints

Use a suitable and rough grit size of sanding paper or diamond disk grinder to roughen the surface of the existing coating and increase the mechanical key bonding. Clean the surface from sanding debris using air blower, wet cotton rag and allow total drying prior proceeding with subsequent finishes.

Priming of cementitious substrates

Over medium to highly porous substrates it is recommended to apply a single coat of CIKOMicro Topping-liquid part using a roller or spray at a consumption rate ranging between 0.1 L/m² and 0.2 L/m² depending on degree of surface absorption and porosity. Over low porous cement-based substrates use the material mixed at a ratio of 1:1 using a roller or suitable hopper spray to seal the surface and unify surface absorption. Allow the applied primed surface to dry for at least 3 up to 6 hours depending on surface absorption and prevailing ambient temperature prior proceeding with further coats.

Priming of existing coatings and paints

Use CIKOPoxy Prim14 or CIKOPoxy Prim 14-SF, two-components epoxy-based primers shall be used for priming the substrate. Properly mixed material should be applied using brush or high-quality medium nap epoxy roller over the dry and clean surface at the rate of 0.1 L/m² up to 0.2 L/m², whilst wet broadcast CIKO

ASG (0.3-0.5mm) uniformly or fully ponded over the wet coat at a consumption rate ranging between 0.7 kg/m² up to 1.5 kg/m². The coated surface should be protected for at least 12 up to 24 hours curing, depending on the prevailing ambient conditions and prior application of further coats

Mixing

CIKOMicro Topping intermediate and topcoat shall be prepared by mixing the powder and liquid components at the following ratios 1.5:1 and 2:1 respectively. Dispense slowly and gradually the weighed powder component of CIKOMicro Topping into the mixing vessel containing approximately 80% of measured liquid component. Run the heavy-duty adjustable speed drill-paddle assembly while dispensing the powder and mix for 2 to 3 minutes to achieve a homogenous, lump free mix.

Add the balance 20% of measured liquid component and further mix for additional 2 minutes. ensure that the mixture is homogeneous and free of powder lump prior proceeding with the application.

Small quantities not exceeding 2kg can be mixed manually with a spatula or other suitable hand mixing tools. This is usually done during the 2nd coat layer touch ups and repatching for decorative purposes.

Placing

Surface finishing is applied in 2 to 3 layers for the best decorative effect.

Place the material which is mixed at a ratio of 2:1 within its working time or pot life over the cleaned and primed surface. Spread the first layer using a putty knife, scrapper squeegee not exceeding a thickness of 1mm. This coat will function as an intermediate and base decorative background coat. Allow the base coat to cure for at least 4 up to 8 hours.

Remove any bumps if present using scrapper.

Apply the top layer of CIKOMicro Topping, which has been mixed at a ratio of 1.5:1, using a galvanized and or magnesium trowel tool to give the required surface effect. Allow the applied surface to dry for at least 4 up to 8 hours.

Where required, a final brushing coat is suggested for a better surface effect. Use a mixture prepared at a mixing ratio of 1.5:1 to touch up and patch particular or full area then allow the surface to dry for at least 4 to 8 hours.

Sanding and smoothing

Prior to sanding and smoothing, ensure that the surface is dry and hard enough. Use a rotational motion or vibrational motion sanding and smoothing machine assembled to a minimum 60 grit size of sandpaper. Repeat the same sanding and smoothing procedure while increasing gradually in the grit size of

sanding paper to achieve a smooth finish. The sanding and smoothing procedure brings out the colour variations and trowel marks. Allow to cure for at least 24 hours prior sealing.

Sealing

It is mandatory to protect the decorative system against staining, water absorption, uncontrolled abrasion and impacts.

Many protection sealing products can be applied once CIKOMicro Topping layers are fully dry. Sealing systems may include 1 or 2 different types and nature of sealers depending on service life requirements, application area, site service conditions and many other aesthetical concerns.

Consult CIKO Technical department for further recommendations and support.

Precautions & Recommendations

- Application temperature must be between 5°C - 35°C.
- Do not temper the material after initial mix. Discard and mix fresh materials.
- When applied on highly porous and absorbent substrates such as normal gypsum boards, ACC panels, cement board, EPS panels, etc. It is advisable to seal the substrate using the liquid component of CIKOMicro Topping.
- When CIKOMicro Topping is applied over a previous coating, it is recommended to conduct a patch testing mockup of the full system for evaluating the bond strength.

Packaging

CIKOMicro Topping – Powder component is available in 20Kg moisture resistant bags

CIKOMicro Topping – Liquid component is available in 10 Kg.

Shelf life

CIKOMicro Topping has a shelf life of 12 months if stored in accordance with CIKO instructions.

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.

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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.

Storage

CIKOMicro Topping (Powder and Liquid) should be stored under cool enclosed shaded area at temperatures between 5°C and 40°C.

Figure 2: CIKOMicro Topping sealed with water repellent



Health & Safety

Use standard dust mask to avoid inhalation of dust. Powders 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