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INDUSTTRIAL

INDUSTTRIAL XL
Epoxy microcement

INDUSTTRIAL XL is a two-component epoxy microcement, water-based, specially designed as a preparatory layer for floors.

Uses

High-performance microcement for interiors, designed as a low-thickness continuous coating, decorative finish, and without joints. Specifically formulated for floors subject to heavy wear, such as malls, restaurants, hotels, garages, warehouses. Not suitable for installation over radiant heating floors.

Properties

- **Seamless continuous coating (always respect the expansion joints).**
- **Specifically formulated as a preparatory layer for walls and floors. Suitable for interior renovations.**
- **Compatible with a wide range of surfaces such as concrete, ceramic, tiles, plaster, and gypsum board…**
- **High durability, excellent abrasion resistance, and low water absorption. More waterproof than conventional microcement systems.**
- **Ready-to-use product, easy to apply.**
- **Can be pigmented, allowing for a wide range of colors and personalized finishes to suit different decorative styles**

Technical Data

PROPERTIES	SPECIFICATION	UNIT	METHOD
Characteristics Comp. A	Epoxy paste		
Non-volatile content % Comp. A	80-82	%	UNE-EN ISO 3251:2020
Density Comp. A	1.6±0.1	g/cm³	UNE-EN ISO 2811-1
Characteristics Comp. B	Aliphatic amine		
Non-volatile content % Comp. B	100	%	UNE-EN ISO 3251:2020
Density Comp. B	1.02±0.1	g/cm³	UNE-EN ISO 2811-1
Viscosity Comp. B	1200-1500	mPa·s	UNE-EN ISO 2555

PROPERTIES MIXTURE A+B (100:11.6)	SPECIFICATION	UNIT	METHOD
Performance	**1.1**	**Kg/m² (1 coat)**	
Non-volatile contents A+B	91-93	%	
VOC's	<5	g/L	
Mix pot life	60	min	
Shore D Hardness	55		EN ISO 868:2003-10
Sanding Grain	40		
Drying Time Between Layers	8-12	hours	
Application Temperature	15-25	ºC	
Curing Time	7	days	

Certifications

System used: 1 layer of PRIMACEM BARRIER+ 2 layers of INDUSTTRIAL XL+ 2 layers of INDUSTTRIAL MEDIO+ 2 coats of TOPSEALER wt Dragon

CE Marking Tests according to Harmonized Standard EN 1504-2:2004	Performance	Test of the harmonized standard
Assessment of liquid water permeability	w = 0.0026 kg/(m²h05) W3	UNE-EN 1062-3:2008
Assessment of water vapor permeability	SD 10.8334 (m) Class II	UNE- EN ISO 7783:2019
Assessment of direct tensile adhesion	1.6 MPa (Rigid systems with traffic loads)	UNE-EN 1542:2000
Assessment of carbon dioxide permeability	SD (m) = 520.8930 ± 28.46	UNE-EN 1062-6:2003
Assessment of abrasion resistance	113 mg	UNE-EN ISO 5470-1:2017

Surface Preparation

All surfaces must be leveled and consolidated. It's essential to clean and dry the surface to be covered. It should be free of dust, grease, soap, deteriorated paints, etc. Before applying Industtrial microcement, it's crucial to properly prepare the surface, tailored to its specific conditions. Depending on the type and state of the substrate, the use of Primacem® PLUS primer on non-absorbent surfaces or Primacem® ABS on absorbent surfaces may be required, as well as applying moisture barriers against capillarity or vapor with Primapox® Barrier. Topciment recommends Primacem® PLUS primer for this system.

In any case, it's recommended to apply the microcement while the primer still has tack (stickiness to the touch) to ensure optimal adhesion. If the primer cures completely and loses tack (especially with epoxy-based primers), adhesion is reduced, and detachment may occur. If the primer is already dry, it's necessary to sand the surface before applying the microcement to restore anchorage.

For tiles and other coverings with joints, it's necessary to fill these joints beforehand with Primacem® JOINTER; for correct application, refer to the product's technical sheet.

In all cases, it's crucial to rigorously follow the technical advice provided by our specialists and consult the corresponding technical sheets for each product.

Application

Homogenize component A of INDUSTTRIAL using mechanical stirring at a low speed. Add component B and mix. The mixing ratio is 100 parts of A to 11.6 parts of B. The mixture's pot life (component A + component B) is 60 minutes at around 20°C.

Tint the resulting mixture with the ARCOCEM® PLUS color toner chosen from the INDUSTTRIAL color chart. Alternatively, you can tint component A first and then mix it with component B.

Spread and smooth the microcement in a thin layer using a polycarbonate trowel or a biflex steel trowel to prevent burns, then let it dry between coats for 8-12 hours. Apply two base coats (Industtrial XL or Base), followed by two finishing coats (Industtrial MEDIO or LISO). Sand each layer with 40-grit sandpaper for the XL or Base coats, and 80-grit for Industtrial MEDIO or 220-grit for Industtrial LISO.

The trowel should be angled about 45º to the surface to avoid overly thin layers that can cause burns, leaving dark marks on light colors, or overly thick layers that delay drying and could cause the material to seep out. Do not apply fresh on fresh.

The drying time for each layer will depend on the environmental conditions at the time of application. At temperatures between 15-23°C, drying between layers can range from 8-12 hours. At temperatures between 23-35°C, it can range from 4-6 hours. Humidity will also be a key factor, as high humidity levels (>70% w/w) will slow down the drying process.

The final curing time will similarly depend on these environmental conditions, ranging from 7-14 days. It is not recommended to apply at ambient and substrate temperatures below 15°C.

Industtrial should be sealed 24-48 hours after applying the final coat. Do not start the sealing process until the coating has a residual moisture content below 5%, verified with specific moisture measurement tools. For sealing, use a varnish from the Topsealer® range, with Topsealer WT Dragon recommended for floors as it's the most advanced product in the line. However, Topsealer WT All in One is sufficient for walls not exposed to moisture. It's crucial to follow the application instructions detailed in each product's technical sheet.

Special Precautions

It is essential to follow the instructions on the package label. For more information, consult the product safety data sheet.

Empty containers must be disposed of in accordance with current legal regulations.

Presentation

Available in packaging of:

- 18 Kg Comp. A + 2,09 Kg Comp. B
- 4,5 Kg Comp. A + 0,52 Kg Comp. B
- 1,8 Kg Comp. A + 0,21 Kg Comp. B

Tool Cleaning

Tools should be washed with soap and water immediately after use.

Storage Conditions

The product should be stored in its original, sealed packaging, protected from the elements, at temperatures between 59°F and 86°F, in a dry and well-ventilated area, away from heat sources and direct sunlight. Its shelf life is 1 year from the date of manufacture if stored properly.

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The product must not be used for purposes other than those specified without first obtaining written instructions for handling. It is always the user's responsibility to take appropriate measures to comply with legal requirements. Safety Data Sheets for the product are available to professionals.

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