

MONNELI EPOCHIM K40

Water Based Epoxy Coating for Non-Toxic Application

Product Description

A two component water based epoxy resin coating. It has good characteristics of adhesion to concrete, ceramics, etc. After curing the product transforms into an absolutely non toxic, continuous coating, waterproofing and with good resistance against chemical solutions.

Gives good general protection for concrete surfaces and provides an easily cleaned, non dusting finish in numerous industrial and commercial applications. The system is free of organic solvents and can be applied to damp surfaces.

Uses

EPOCHIM K40 is used as impermeable coating in a wide range of applications such as:

- Swimming pools
- Wall coating in food industries (winery, packing house, etc.)
- Laboratories
- Operating rooms
- Canteens and kitchens
- Warehouses
- Places where a protective non-toxic continuous covering is required.
- Hard wearing floor coating in industrial areas
- Waterproofing for wet areas, balconies and terraces.

Ideal for waterproofing and protection of concrete tanks containing drinking water, certain chemical solutions, oils and fuel.

Advantages

- Durable and good resistance to abrasion
- Very good adhesion to the support surfaces
- Non-toxic
- Supplied in pre weighted packs, ready to mix at site
- Safe to use as it is water based
- Ideal for maintenance application
- Approved for use with potable water

Instructions for Use

Surface Preparation

The surface must be perfectly clean, solid, sound, uncontaminated, free from oil, grease, old friable varnish, etc.

New concrete should be at least 28 days old and moisture is less than 5% unless water reducing admixtures have been incorporated.

Old concrete should be sound, clean to achieve maximum adhesion. Dust should be removed by vacuum brush. Oil and grease should be removed by chemical etching treatment followed by water cleaning. It is recommended to shot blast the concrete substrate in order to provide a suitable clean surface. All necessary repairs should be made prior to application by using Colmef concrete repair products.

Priming

Concrete surface must be treated with PRIMER POXY or PRIMER POXY WB. Concrete corners between wall-wall and floor-wall must be rounded with BETOCEM HR. For ceramic supports use EPOMAX for rounding the corners.

Mixing

For the preparation of EPOCHIM K 40 pour component B (hardener) into component A (resin) and mix carefully with a drill at low number of turns (200–300rpm), till obtaining a homogeneous consistency.

Application

Apply the coating with a brush, roller or airless spray in at least two coats in a rate of 0.3-0.4 Kg/m² per coat. Before applying the second coat make sure that the first one has completely hardened. If the second coat is delayed more than 20 hours, then the previous coat must be thoroughly abraded to give an adequate mechanical key and solvent wiped.

Fix fibre mesh to reinforce corners and cracks between the two layers of EPOCHIM K 40.

Cleaning

Tools and equipment should be cleaned with water immediately after use. Hardened material should be removed mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

Recommendations

- Partial mixing of the product components should not be allowed under any conditions
- Extra care should be taken when applying at high temperature as pot life of the mixed product will shorten automatically
- It is recommended to shade the working area while mixing and placing EPOCHIM K 40
- EPOCHIM K 40 should not be applied onto surfaces with relative humidity more than 80%, and temperature below +5°C.

Consumption

0.3-0.4 Liters/ m² per coat according to the porosity of the support

Packaging

EPOCHIM K 40 is supplied in 4 Liter and 15 Liter kits (Base & Hardener)

Technical Data

Properties	Results
Appearance	Liquid coating
Colour	Refer to Colmef color chart
Density at 25°C	1.28 kg/L
Pot life at 25°C	about 40 minutes
Bond strength (ASTM D4541)	> 2.00 N/mm ²
Tack free time at 25°C	2-3 hours
Full cure at 25°C	7 days
Time between coats	24 hours
Dry film thickness	200 microns per coat
Temperature of application	+5°C to +35°C
Chemical resistance	Mild acids, alkalis, solvents and water

All values are subject to 5-10 % tolerance

Storage

Keep the product in tightly closed containers stored in dry covered place, at a temperature not less than +5°C and not more than +35°C. Under these conditions, the product will have a shelf life of 12 months.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment. Avoid contact with skin, eyes and inhalation of vapor. Ensure proper ventilation at working place. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately. Do not induce vomiting.

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DUBAI
ABU DHABI
KSA
ITALY

P.O. Box 123808 Dubai UAE
P.O. Box 127326 Abu Dhabi, UAE
P.O. Box 335896 Code: 11383 - Riyadh KSA
Z.I. Ponte d'Assi 06024 Gubbio (PG)

T. +971 4 8803488 F. +971 4 8803450
T. +971 2 5511949 F. +971 2 5511749
T. +966 1 2654277 F. +966 1 2654335
T. +39 75 9221297 F. +39 75 9221174

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colmef@colmef.ae

www.colmef-me.com