

MIPRO-EC

A SOLVENT FREE EPOXY COATING

DESCRIPTION

MIPRO-EC is a durable solvent free and easy apply epoxy resin coating. When cured, it forms a gloss, seamless and impervious finish which is easily cleaned. Available in a wide range of colors and in clear.

RECOMMENDED USES

MIPRO-EC can be applied on all cementitious floor substrate that required to withstand semi heavy mechanical loads and chemicals. It is recommended both as a protective coating and lining. Its ultra high build properties allow a thickness of up to 100 microns or more in single spray and 500 microns when trowel. Suitable for protecting vertical and horizontal surfaces – typically roller or spray applied. Application area includes dry areas in general production, warehouse facilities, garages, workshops, laboratories and as lining system for oil pits and sumps.

BENEFITS

- Hygienic - seamless and hygienic finish, no crevices where dirt and bacteria can dwell.
- Hard wearing - good abrasion resistance for semi heavy mechanical loads.
- Excellent adhesion – good adhesion to most substrates.
- Food Grade - low odor and safety during application.

COLOURS

Available in standard flooring colors Other colors can be matched upon request.

TECHNICAL DETAILS

Compressive Strength	45 N/mm ²
Tensile Strength	12 N/mm ²
Flexural Strength	20 N/mm ²
Abrasion Resistance – Taber (CS-17 Wheel)	0.25 gm/1000gm.loading / 1000 rpm
Bond Strength (ACI Committee #503)	>400 psi (100 % concrete failure)
Temperature Resistance	60°C (dry)
Hardness (Shore D)	70 – 75
Solid Content (mixed)	100%
No. of Coats Recommended	2
No. of Component	2
Mixing Ratio	4:1 by weight of Part A & Part B
Pot Life	45 mins. At 25°C
Cleaner	Washing Thinner
Packaging	5kg
Storage & Shelf Life	Unopened in dry conditions at 10°C – 25°C / 12 months
Estimated Coverage	4m ² /kg/coat

NOTE: Coverage figure given is theoretical-due to wastage factors and the variety nature of the substrate, the practical coverage may be reduced and this may vary with the site application conditions.

SPECIFICATION

New concrete and masonry must be allowed to cure for minimum of 28 days. Substrate to be coated must be sound, clean and free from any contamination. Mechanical stone grinding should be employed followed by thorough vacuuming. Apply 2-3 coats of MIPRO-EC at a spreading rate of 5m²/kg/coat at an interval of minimum 8 hours. All applications must be carried out in accordance with manufacturer's written instructions.

CHEMIPROTECT ENGINEERS

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APPLICATION PROCEDURE

Surface Preparation

Substrate should be structurally sound, clean and free from loose particles, oil, grease and other contaminants. Remove cement laitance, loose particles and other contaminants from surface by mechanical cleaning preferably stone grinding and followed by vacuuming.

Mixing

Stir each component separately using a slow speed (300-400 rpm) electric drill fitted with a paint mixer or a wing type mixing paddle. Then pour the entire content of Part B into Part A and continue to mix for 2-3 times or until homogeneous before use.

Application

Apply MIPRO-EC within its pot life.

1st Coat / Primer

Concrete – Use MIPRO-EP or MIPRO-WBEP.

Steel - Detail upon request.

Subsequent Coats

2 coats of full strength.

Thinning

Not required.

Method Of Application

Airless or conventional spray, brush and roller. For brush and roller applications, the surface will be textured and variation in thickness.

Recoating

Touch Dry:

2 hrs at 25°C

Maximum Recoating Time:

24 hrs at 25°C

Loading Capacity

Foot Traffic - 24 hours Full Strength - 7 days

CHEMICAL RESISTANCE

MIPRO-EC has excellent resistance to a wide range of industrial chemicals.

A few common chemicals as listed below:-

Full chemical resistance achieved after 7 days at 25°C

	Excellent	Good	Limited
Citric Acid 10%	+		
HCl Acid 10%	+		
Sulphuric Acid 10%	+		
Lactic Acid 5%		+	
Sodium Hydroxide 70%	+		
Engine Oil	+		
Hydraulic Oil	+		
Petrol	+		

HEALTH & SAFETY

Product contains epoxy resins and amines. Do not take internally. May irritate eyes and skin. Always use with suitable protective gears. Close container tightly after use. Keep out of reach of children.

For further information, refer to the product material safety data sheet, available upon request.

ADDITIONAL INFORMATION

With a wealth of technical and practical experience built up over many years in pursuit of excellence especially in the flooring and concrete technology, make us your partner today!

Contact us at hot line below.

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