



ResiGard EC-S (MIO)

Epoxy Resin Coating for Steel and Concrete

DESCRIPTION

ResiGard EC-S (MIO) is a two component, high solids, high build product based on solvented epoxy resin and micaceous iron oxide (MIO) for superior grade protective coating for steel and concrete surfaces. Designed as a mid-coat system for new construction in atmospheric environments.

USES

ResiGard EC-S (MIO) is suitable for structural steel and piping to be exposed to a highly corrosive environment. Recommended for offshore environments, refineries, power plants, bridges, buildings and mining equipment.

ADVANTAGES

- Excellent chemical resistance
- Suitable for application by brush, spray or roller
- Excellent adhesion to a variety of substrates
- Easy to maintain
- Superior corrosion protection
- Excellent water Vapour permeability

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Two : Part A – Base and Part B - Hardener
Mixed Form	-	Liquid
Colour	-	Grey, Red
Pot Life	ASTM D2471	65 mins ± 10
Drying Time	-	5-6 hrs.
Recoat Time	-	Min. 5 hrs. - Max. 24 hrs.
Full Cure	-	7 days
Bond Strength	ASTM D4541	Concrete failure at 7 days
Chemical Resistance	ASTM D543	Resistant to various chemicals like mild acids, mild alkalis, fuels etc. Contact Conmix technical service for specific information.
Application Temperature	-	+5°C to +40°C
Service Temperature	-	+5°C to +70°C

SURFACE PREPARATION

Surfaces to be coated must be clean, dry, sound, free of mould release agents, bond breaking coatings, curing compounds or any other form of contamination that may affect the adhesion of the epoxy coating to the substrate. Surface preparation must be done using appropriate methods like grinding or wire brushing and vacuumed. All loose concrete should be removed until a sound substrate is reached. Use suitable epoxy or cementitious repair mortar from **ReCon** range to rectify minor irregularities, cracks, etc. Where water curing not feasible, use epoxy repair material **ReCon FCE**. New cementitious surfaces should be at least 28 days old and have a moisture content less than 5% prior to application.

MIXING

ResiGard EC-S (MIO) is supplied in pre-measured packs. Base and hardener should be stirred separately before mixing. Transfer the hardener component into base and mix using a slow speed drill machine fitted with a paddle mixer for two minutes to get a uniform colour.



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Scrape the sides, edges and the bottom of the mixing container using a spatula and continue mixing for a further 2 minutes.

PRIMING

If the surfaces are highly porous and rough textured, priming is recommended. Prime the surface with **ResiGard Primer SB / ResiGard Primer SF**. Primer should be brushed into the substrate using a stiff brush or roller and allowed to dry (minimum 12-16 hrs.) before the application of **ResiGard EC-S (MIO)**. In case of extremely porous substrate, two coats of primer are recommended. If the surface is damp, it is preferred to use **ResiGard MB** as a primer coat which cures with the inherent moisture and will not adversely affect the adhesion of the topcoat.

APPLICATION

Treat pinholes, surface irregularities with **ReCon FCE** and allow it to dry before application of subsequent coat. Apply two coats of **ResiGard EC-S (MIO)** on the prepared surface with roller, brush or spray to achieve a total dry thickness of 150 microns. Allow for a minimum of 5 hours drying time. Apply two coats of **ResiGard PU** for external protection.

LIMITATIONS

At higher temperatures pot life will be reduced.

For working in cold climates (<5°C) **ResiGard EC-S (MIO)** containers need to be kept in a hot water bath.

ResiGard EC-S (MIO) can be applied in areas exposed to direct sunlight, being epoxy there will be little change in the colour but other technical properties will be intact.

PACK SIZE

5 Ltr and 10 Ltr Set

COVERAGE

7m²/ltr/coat at 150 microns WFT

Coverage rates can vary according to the substrate porosity and texture. Conduct field trial to ascertain actual coverage.

GENERAL INFORMATION

Shelf Life

12 months from the date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / Humidity may reduce shelf life.

Cleaning

Clean all equipment and tools with **Conmix Cleaner** immediately after use.

HEALTH & SAFETY

PPE's: Gloves, goggles and suitable mask must be worn.

Precautions: Contact with skin, eyes etc. must be avoided. If swallowed seek medical attention immediately.

Hazard: Regarded as hazardous transportation.

Disposal: Do not reuse containers. To be disposed off as per local rules and regulations.

Additional Information: Refer MSDS. (Available on request)

TECHNICAL SERVICE

CONMIX Technical Services are available on request for onsite support to assist in the correct use of its products.

Manufacturer:

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It is the customer's responsibility to satisfy themselves by checking with the company whether information is still current at the time of use. The customer must be satisfied that the products suitable for the use intended. All products comply with the properties shown on current data sheets. However, Conmix does not warrant or guarantee the installation of the products as it does not have any control over installation or end use of the product. All information and particularly the recommendations relating to application and end use are given in good faith. The products are guaranteed against any manufacturing defects and are sold subject to Conmix standard terms and conditions of sale.