



ResiGard EC-S

Epoxy Resin Coating for Steel and Concrete

DESCRIPTION **ResiGard EC-S** is a three component, solvented epoxy resin based superior grade protective coating for steel and concrete surfaces.

USES **ResiGard EC-S** is suitable for use on floors and walls in warehouses, laboratories, battery and pump rooms, petrochemical facilities, bridges, off-shore structures, power industry and pulp and paper mills. It provides excellent chemical resistance, abrasion resistance and improved aesthetics.

ADVANTAGES

- Excellent chemical resistance
- Good abrasion resistance
- Suitable for application by brush, spray or roller
- Available in various colours with smooth and anti-slip textures
- Excellent adhesion to a variety of substrates
- Easy to maintain
- Provides dust free surface

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Three: Part A - Base Part B- Hardener Part C- Colour Pack
Mixed Form	-	Liquid
Colour	-	Various colours available
Pot Life	ASTM D2471	65 mins +/-10
Drying Time	-	5-6 hrs
Recoat Time	-	Min 5 hrs and Max 24 hrs
Full Cure	-	7 days
Bond Strength	ASTM D4541	> 1 N/mm ²
Chemical Resistance	ASTM D543	Resistance to various chemicals like acids, mild alkalis, fuels, grease, petrol, etc
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. Used suitable epoxy or cementitious repair mortar from



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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 is supplied in pre-measured packs. Base and hardener should be stirred separately before mixing. Transfer the colour pack into the base and mix for a minute. Add hardener component and mix using a slow speed drill machine fitted with a paddle mixer for two minutes to get a uniform colour. 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**. In case of extremely porous substrate, two coats of primer is recommended. Allow the first coat to dry before applying the subsequent coat. Allow primer coat to completely dry before applying **ResiGard EC-S**. If the surface is damp, it is preferred to use **ResiGard MB** as primer coat which cures with the inherent moisture and will not adversely affect the adhesion of the topcoat.

APPLICATION

Apply first coat of **ResiGard EC-S** on the prepared surface with roller, brush or spray at recommended coverage rate. Allow for a minimum of 5 hours drying time. Treat pinholes, surface irregularities with **ReCon FCE** and allow it to dry before application of subsequent coat.

Anti-slip finish:

Apply first coat of **ResiGard EC-S** at 100 micron wft on prepared surface. While the coating is still tacky, sprinkle / broadcast the anti-slip grains at the rate of 0.2-1 kg/m². Depending on the required surface texture, **Conmix Anti-slip grain no. 1** or **2** can be used. Excess aggregates should be removed before the application of the topcoat. Allow the first coat to dry for a minimum of 5 hrs, before applying the second coat of **ResiGard EC-S**. The second coat needs to be applied at a minimum thickness of 100 microns wft. **ResiGard EC-S** should be cured for 24 hrs before allowing foot traffic.

ResiGard EC-S can be applied using a brush, roller or spray. For application by airless spray, use a 45:1 or higher ratio pump, minimum 9 mm dia hoses and HD tip 19-23 thou.

LIMITATIONS

At higher temperatures pot life will be reduced.

For working in cold climates (<5°C) **ResiGard EC-S** containers need to be kept in a hot water bath. **ResiGard EC-S** cannot be applied in areas exposed to direct sunlight.



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PACK SIZE	5 ltr and 10 ltr Set	
COVERAGE	<p>7m²/ltr/coat at 130 microns wft (75 microns dft)</p> <p>Coverage rates can vary according to the substrate porosity and texture. For anti-slip finish coverage of second coat will be considerably reduced. Conduct field trial to ascertain actual coverage.</p>	
GENERAL INFORMATION	Shelf Life	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	Cleaning	Clean all equipments and tools with Conmix Cleaner immediately after use.
HEALTH and 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 for 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.	

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