

Ressi EPO Prime – Protected

Anticorrosive Epoxy Primer for C2 Low
Corrosivity Environments



Ressi EPO Prime – Protected is a high-performance, two-component anticorrosive epoxy primer specifically designed for C2 low corrosivity environments as defined in ISO 12944. It is formulated to protect steel structures and equipment exposed to low levels of humidity and pollution, typically found in indoor industrial areas and rural outdoor environments.

This primer provides excellent adhesion, moisture resistance, and effective corrosion protection for mild to moderately exposed steel surfaces. It contains active anticorrosive pigments and barrier-enhancing additives, ensuring reliable protection and forming a tough, chemically resistant film that serves as an ideal base for topcoat applications.

TYPICAL APPLICATION

- ✓ Indoor structural steel and machinery
- ✓ Industrial workshops and warehouses
- ✓ Food processing plants and storage areas
- ✓ Light fabrication and maintenance coatings
- ✓ Rural outdoor structures with low pollution exposure
- ✓ General engineering and OEM applications

ADVANTAGES

- ✓ Formulated for C2 low corrosivity environments (ISO 12944 compliant)
- ✓ Excellent adhesion to properly prepared steel surfaces
- ✓ Provides effective protection against humidity and mild atmospheric exposure
- ✓ Contains anticorrosive pigments for extended service life
- ✓ Cures to a hard, durable, chemically resistant film
- ✓ Compatible with a wide range of epoxy and polyurethane topcoats
- ✓ Easy to apply by brush, roller, or spray

SURFACE PREPARATION AND MIXING

- All surfaces must be clean, dry, and free from oil, grease, rust, and other contaminants.
- ✓ For optimal results, abrasive blast cleaning to a minimum of Sa 2½ (ISO 8501-1) is recommended.
 - ✓ If blasting is not possible, mechanical cleaning to St 3 standard may be used as an alternative.
 - ✓ Ensure the cleaned surface is free from dust and moisture prior to primer application.

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MIXING

Ressi EPO Prime – Protected is supplied in pre-measured two-component kits (Base and Hardener).

1. Add the entire contents of the Hardener (Part B) to the Base (Part A).
2. Mix thoroughly using a low-speed mechanical mixer (300–400 rpm) until a uniform blend is achieved.
3. Avoid air entrapment during mixing.

APPLICATION

Apply the mixed material using airless spray, conventional spray, brush, or roller. Ensure uniform film thickness and full surface coverage.

- ✓ Recommended Dry Film Thickness (DFT): 60–70 microns per coat
- ✓ Apply subsequent coats once the primer is dry to touch and within the specified overcoating interval.

COVERAGE

Approximately 100–120 sq. ft. per kg per coat @ 80–100 microns, Theoretical coverage values are provided for reference only; actual material consumption may vary depending on surface profile, porosity, and application conditions

LIMITATIONS

When temperatures exceed 35°C working times will be reduced significantly. During application in cold weather correct conditioning is essential. Application should be halted if the ambient or substrate temperature is likely to fall below 10°C.

SHELF LIFE

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

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TECHNICAL PROPERTIES

Appearance	Opaque Liquid
Color	Red
Viscosity (Part A)	600 – 1000
Viscosity (Part B)	100 – 150
Mix Ratio (Part A: Part B)	100 : 33
Mix Viscosity @ 25°C / cPs	200 – 400
Mix Density /g / cc	1.10
Working time	90 – 120 minutes
Tack Free Time	4 – 5 Hours
Over coat time	8 Hours – 12 Hours (Depending upon nature of substrate)
Full Cure	7 days
Adhesion Test (ASTM D 3359)	5B (Pass)
Pencil Hardness (ASTM D 3363)	5H (Pass)
Mandrel Test (ASTM D 522)	12mm (Pass)
Impact Resistance Test (ASTM D 2794)	>60 inch-lb

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PACK SIZE

Ressi EPO Prime – Protected is available in the following pack sizes:

- 1 KG:** Part A 750g
Part B 250g
- 5 KG:** Part A 3.75 KG
Part B 1.25 KG
- 20 KG:** Part A 15 KG
Part B 5 KG

HEALTH AND SAFETY

The packed material of **Ressi EPO Prime – Protected** is regarded as non-hazardous for transportation. Once opened extreme temperatures may cause the material to be flammable. Do not re use bags, containers, and packaging materials. It is recommended to dispose the packaging as per local rules and regulations. Gloves and suitable masks can be worn during application. Please refer to MSDS of the product for further health and safety information.