

Ressi EPO Shield – Interior

High-Performance Epoxy Topcoat for C1 Very Low Corrosivity Environments



Ressi EPO Shield – Interior is a high-quality, two-component epoxy-based coating system designed for C1 very low corrosivity environments in accordance with ISO 12944. It provides a smooth, durable, and decorative finish with excellent resistance to abrasion, mild chemicals, and cleaning agents. The coating forms a hard, glossy, and easy-to-clean film that maintains its appearance over time. It ensures long-lasting protection and aesthetic appeal for indoor applications with minimal exposure to moisture or contaminants.

TYPICAL APPLICATION

- ✓ Interior steel structures and supports
- ✓ Factory interiors and production areas
- ✓ Machinery and equipment in dry environments
- ✓ Storage facilities and warehouses
- ✓ Commercial and public buildings
- ✓ Workshops and utility rooms
- General maintenance and protective coating systems for indoor service

ADVANTAGES

- ✓ Designed for C1 very low corrosivity environments (ISO 12944 compliant)
- ✓ Provides a smooth, decorative, and glossy finish
- ✓ Excellent adhesion and durability in indoor conditions
- ✓ Resistant to mild chemicals, cleaning agents, and abrasion
- ✓ Easy to clean and maintain
- ✓ Long-lasting color and gloss retention
- ✓ Simple to apply by brush, roller, or spray

SURFACE PREPARATION AND MIXING

- All surfaces must be clean, dry, and free from oil, grease, dust, rust, and other contaminants.
- ✓ For new steel, remove oil and grease using suitable solvents or detergents (ISO 8504-3).
- ✓ Light mechanical cleaning or power tool cleaning to St 2 (ISO 8501-1) is usually sufficient for C1 indoor applications.
- ✓ Ensure the surface is dry and free of dust prior to coating.
- ✓ Apply over a compatible Epoxy Primer or directly onto prepared steel, depending on system design.

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MIXING

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

1. Add the entire contents of Hardener (Part B) into the Base (Part A) container.
2. Mix thoroughly using a low-speed mechanical mixer (300–400 rpm) until a uniform and homogeneous mixture is obtained.
3. Avoid aeration during mixing.

APPLICATION

Apply the mixed material by airless spray, conventional spray, brush, or roller, ensuring a uniform film thickness and complete coverage.

- ✓ Recommended Dry Film Thickness (DFT): 90–100 microns per coat
- ✓ Apply subsequent coats once the previous coat is dry to touch and within the recommended overcoating interval.
- ✓ Ensure adequate ventilation during application and curing.

COVERAGE

Approximately 90–100 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	Available in Different Color (Please refer to Shade Card)
Viscosity (Part A)	2000 – 3000
Viscosity (Part B)	30 – 50
Mix Ratio (Part A: Part B)	100 : 33
Mix Viscosity @ 25°C / cPs	400 – 600
Mix Density /g / cc	1.05
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
Gloss	100 – 120 (High)
Adhesion Test (ASTM D 3359)	5B (Pass)
Pencil Hardness (ASTM D 3363)	5H (Pass)
Mandrel Test (ASTM D 522)	6mm (Pass)
Impact Resistance Test (ASTM D 2794)	>60 inch-lb.

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PACK SIZE

Ressi EPO Shield – Interior 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 Shield – Interior** 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.