

Ressi EPO Shield – Urban Mastic

High-Performance Epoxy Topcoat for C3
Medium Corrosivity Environments



Ressi EPO Shield – Urban Mastic is a high-performance, two-component epoxy-based coating system designed for C3 medium corrosivity environments in accordance with ISO 12944. It provides a durable, UV-stable, and weather-resistant finish with excellent protection against humidity, salt-laden air, and mild chemical exposure.

The coating forms a tough, glossy, and color-retentive film that resists chalking and fading even under prolonged outdoor exposure. It ensures long-term aesthetic and protective performance for a wide range of industrial and architectural applications.

TYPICAL APPLICATION

- ✓ Structural steel frameworks
- ✓ Industrial equipment and machinery
- ✓ Storage tanks and pipelines
- ✓ Power plants and refineries
- ✓ Marine and coastal environments
- ✓ Workshops, factories, and warehouses
- ✓ General maintenance and protective coating systems

ADVANTAGES

- ✓ Formulated for C3 medium corrosivity environments (ISO 12944 compliant)
- ✓ Provides a UV-stable, glossy finish with excellent color retention
- ✓ Excellent resistance to humidity, salinity, and mild chemicals
- ✓ High weather and abrasion resistance for outdoor exposure
- ✓ Cures to a tough, durable, and impact-resistant film
- ✓ Ensures long-term protection and aesthetic performance
- ✓ Easy to apply using brush, roller, or spray methods

SURFACE PREPARATION AND MIXING

- ✓ All surfaces must be clean, dry, and free from oil, grease, rust, mill scale, and other contaminants.
- ✓ For optimal results, abrasive blast cleaning to a minimum of Sa 2½ (ISO 8501-1) is recommended.
- ✓ Where blasting is not possible, mechanical cleaning to St 3 may be used as an alternative.
- ✓ Ensure the surface is clean, dry, and dust-free prior to application.
- ✓ For best results, apply over Epoxy Paint Primer or other compatible epoxy primers.

Ressi EPO Shield – Urban Mastic

High-Performance Epoxy Topcoat for C3
Medium Corrosivity Environments



MIXING

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

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

APPLICATION

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

- ✓ Recommended Dry Film Thickness (DFT): 80–100 microns per coat
- ✓ Apply subsequent coats once the previous coat is dry to touch and within the specified overcoating interval.

COVERAGE

Approximately 80–90 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.

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	1.09
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)	6H (Pass)
Mandrel Test (ASTM D 522)	6mm (Pass)
Impact Resistance Test (ASTM D 2794)	>60 inch-lb.

Ressi EPO Shield – Urban Mastic

High-Performance Epoxy Topcoat for C3
Medium Corrosivity Environments



PACK SIZE

Ressi EPO Shield – Urban Mastic 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 – Urban Mastic** 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.