

Resi EPO Primer LV is a low viscosity solvent free Epoxy primer based on modified Bisphenol-A based Resin and Phenalkamine based curing agents. **Resi EPO Primer LV** is an ideal epoxy primer for concrete substrates with high rates of absorption. **Resi EPO Primer LV** is an ideal material to be used in conjunction with various epoxy flooring materials. It is used as a priming coat on concrete and cementitious surfaces prior to the application of various epoxy floorings and coatings. Typical areas of applications include car parks, factory floors, food industry, kitchens, aircraft hangers, hospitals, pharmaceutical plants, warehouses etc. **Resi EPO Primer LV** is also suitable for a variety of materials such as metal, wood, ceramic, concrete, textile, glass, leather etc.

ADVANTAGES

Environmental and Health benefits

- ✓ **Low to zero VOC (Volatile organic compounds):** Since it's solvent-free, it releases minimal harmful fumes, improving indoor air quality and making it safer for workers and the environment.
- ✓ **Reduced Odor:** It has little to no odor, which makes it more suitable for use in closed spaces and sensitive areas.

Enhanced Performance

- ✓ **Higher Bond Strength:** Solvent-free epoxy primers create a strong bond with the substrate, enhancing the adhesion of subsequent coatings or layers.
- ✓ **Excellent Penetration:** Despite being thicker, it can penetrate well into porous surfaces like concrete and create a dense, uniform barrier.

Safety Advantages

- ✓ **Non-Flammable:** Since there are no solvents, it reduces the risk of fire or explosion during application.
- ✓ **No Dangerous Fumes:** Safer to apply in confined spaces without needing extensive ventilation.

Cost-Efficiency

- ✓ **Higher Solids Content:** Since it is 100% solids (or close to it), the coverage per liter is more effective with minimal shrinkage after curing.
- ✓ **Lower Application Time:** The high-build nature of solvent-free epoxy means fewer coats are required to achieve the same thickness.



Versatility and Durability

Thick Film Application: Solvent-free epoxies can achieve thicker coatings in a single layer, leading to increased durability.

Abrasion and Impact Resistance: The hardened surface is resistant to wear, making it suitable for high-traffic areas and industrial flooring.

Reduced Application Time

Fast Cure Time: Solvent-free epoxy primers often cure faster, enabling quicker project completion.

Applications where Solvent-free epoxy primers excel and have better performance

- Industrial flooring systems.
- Waterproofing and moisture barriers.
- Chemical-resistant coatings.
- Marine and offshore environments.
- Food processing and pharmaceutical facilities due to their low odor and hygiene compliance.

SURFACE PREPARATION & MIXING

Surface should be free from grease, oil chemical contamination, dust, laitance and loose concrete. This can be achieved by scabbing or light brush hammering to provide a sound substrate. Ressi EPO primer LV is supplied in premeasured two-part containers. Mix the premeasured quantities as per the ratio with a high-speed drill mixer fitted with a paddle. The material is to be mixed thoroughly until homogeneous.

APPLICATION

Apply the material with a suitable squeegee, stiff nylon brush or roller working the **Ressi EPO Primer LV** into the substrate to ensure total absorption into the pinholes and voids. Spray application is also possible. Airless spray will provide faster rate of application.

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.

HEALTH & SAFETY

The packed material of **Ressi EPO Primer LV** is regarded as non-hazardous for transportation. Once opened extreme temperatures may cause the material to be flammable. Do not reuse bags, containers, or packaging materials. It is recommended to dispose of 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.

PACK SIZE

Ressi EPO Primer LV is available in the following pack

1.8 KG:	Part A 1 KG Part B 800g
18 KG	Part A 10 KG Part B 8 KG
54 KG	Part A 30 KG Part B 24 KG

TECHNICAL DATA

Property	Test Method	Result
Appearance Part A	Visual	Clear colorless to yellow liquid
Appearance Part B	Visual	red to brown liquid
Mix ratio (Part A: Part B)	Theoretical	100 : 80
Mix viscosity @ 25°C	ASTM D 2196	1000 – 3000
Mix Density	ASTM D 1475	1.092 g /cc
Pot life (300g mix) @ 25°C	-	60 - 90 minutes
Gel Time	-	6 hours
Tack Free Time	-	11 hours
Over coat time	-	12 – 24 hours (Depending upon nature of substrate)
Coverage per kg material @ 200 micron thickness	-	50 - 55 SFT
Compressive Ultimate Strength (MPa)	ASTM D790	82.6 @ 7 Days
Compressive Yield Strength (MPa)	ASTM D695	71.8 @ 7 Days

Note: at 40°C pot life will be reduced to half

NOTE:

If printed packaging not available, neutral packaging with label. Lot number and manufacturing date to be stamped at the back of each packaging.



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