

**Resi EPO Primer WR** is a water-resistant solvent free epoxy primer especially designed for floors with a slightly high moisture content. **Resi EPO Primer WR** also acts as a moisture barrier for the concrete floor and allows us to form a dry substrate suitable for the application of various epoxy mid-coats and topcoats. **Resi EPO Primer WR** comprises of Bisphenol A Based Epoxy Resins with high solid contents and a moisture resistant Phenalkamine based curing agent. Typical areas of applications include car parks, factory floors, food industry, kitchens, aircraft hangers, hospitals, pharmaceutical plants, warehouses etc. **Resi EPO Primer WR** 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-built 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 AND 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 WR** 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 WR** 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.

Prior to the application on mass areas it is essential to check the floor for moisture content. **Ressi EPO Primer WR** should form a tack free dry epoxy film over the concrete substrate where moisture is usually under 10% to 15%. However ambient humidity, extreme temperature may result in the epoxy material not to cure appropriately.

## 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 WR 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 WR is available in the following packaging.

|                      |                              |
|----------------------|------------------------------|
| <b>1.8 KG Pack :</b> | Part A 1 KG<br>Part B 800g   |
| <b>18 KG Pack :</b>  | Part A 10 KG<br>Part B 08 KG |
| <b>54 KG Pack :</b>  | Part A 30 KG<br>Part B 24 KG |

## TECHNICAL TABLE

| 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 | 1500 – 3000                                        |
| Mix Density                                     | ASTM D 1475 | 1.052 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   | 84.5 @ 7 Days                                      |
| Compressive Yield Strength (MPa)                | ASTM D695   | 73.2 @ 7 Days                                      |

\*Note: At 40°C pot life will half so application should be planned accordingly.  
Typical Results under Laboratory Conditions

## 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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