

**Ressi EPO Gloss Plus** is a three-component heavy duty high gloss moderate chemical resistant epoxy flooring system comprising of Bisphenol A Based Resin, High Gloss Cycloaliphatic based curing agents and epoxy compatible filler component. This solvent free formulation makes the epoxy flooring system comprise of high compressive and flexural strength. **Ressi EPO Gloss plus** is specifically designed for Concrete and Cementitious floors but is also compatible with a variety of other substrates such as wood, metal, fiberglass and selected plastics. Suitable application thickness of **Ressi EPO Gloss plus** is between 1500 microns to 4000 microns in a single layer.

## ADVANTAGES

- ✓ **High compressive and flexural strength:** Ensures durability and long-lasting performance.
- ✓ **Moderate chemical resistance:** Suitable for environments with chemical exposure.
- ✓ **High gloss finish:** Enhances aesthetic appeal and ease of maintenance.
- ✓ **Solvent-free formulation:** Safer application process and environmentally friendly.
- ✓ **Easy to apply:** User-friendly application process suitable for multiple surfaces.
- ✓ **Good Bond Strength with Substrates:** Ensures strong adhesion to various surfaces, providing stability and longevity in diverse environments.

## SURFACE PREPARATION

Surfaces should be free from grease, oil chemical, dust, laitance, loose concrete and should have minimum amounts of moisture. Appropriate surface preparation equipment such as shot blast, Scarified or grinder must be used to obtain a sound surface. Substrates which show any traces of oil must be degreased with a chemical degreaser prior to any surface preparation or grit blasting. Cracks, pinholes, potholes should be repaired using **Ressi EPO Crack Fill**. Uneven concrete should be levelled to produce flat surfaces. New concrete floors should be at least 28 Days old prior to application and must not have moisture exceeding 5% using a standard moisture meter. Expansion, control and isolation joints should be carried through floors filled with a suitable sealant.

## PRIMING

Prepared surfaces should be primed using **Ressi EPO Primer** or any other suitable Primer recommended by Ressichem. The primer should be brushed into the substrate using a stiff brush or roller. The primer should be allowed to dry. Prior to the application of **Ressi EPO Gloss Plus**.

## MIXING

Stir the base and hardener component separately first. Add the Filler component into the base / Hardener material and stir it until the complete material is homogenous. A high-speed drill machine with high RPM levels can be used to homogenize both Part A (base / Resin) and Part C (Filler Material). Once Parts A and C are homogenized, part B should be added into the mix and homogenized accordingly. All Materials should be mixed for at least 3 to 7 minutes a low rpm (400 – 600 rpm) Speed until a uniform homogenized mix is achieved.

## APPLICATION

Spread out with a notched trowel to a uniform thickness between 1500 to 4000 microns. The minimum recommended thickness of Ressi EPO Gloss plus is 1500 microns in a single coat. level the material using appropriate trowels and tools to the desired level. Stroke with a steel trowel to achieve a sealed resin rich surface. A spiked roller can also be used to achieve a uniform surface.

## LIMITATIONS

At higher temperatures, pot life will be reduced. For working on high temperatures below 10°C, **Ressi EPO Gloss Plus** may be placed over a hot water bath. With Regular wear and tear the gloss level of the finished flooring will diminish over time.

## PACK SIZE

Ressi EPO Gloss Plus is available in the following packaging

|                       |                                                  |
|-----------------------|--------------------------------------------------|
| <b>2.7 KG Pack :</b>  | Part A 1 KG<br>Part B 350g<br>Part C 1.35 KG     |
| <b>13.5 KG Pack :</b> | Part A 05 KG<br>Part B 1.75 KG<br>Part C 6.75 KG |
| <b>27 Pack :</b>      | Part A 10 KG<br>Part B 3.5 KG<br>Part C 13.5 KG  |
| <b>54 KG Pack :</b>   | Part A 20 KG<br>Part B 07 KG<br>Part C 27 KG     |

## SHELF LIFE

12 months from the date of manufacturing when stored under warehouse conditions in original unopened packaging. Extreme Temperature / humidity may reduce shelf life.

## HEALTH & SAFETY

The packed material of **Ressi EPO Gloss Plus** is regarded as non-hazardous for transportation. Containers which have been opened and used should be disposed of according to local rules and regulations of the area. Please refer to the MSDS for further health and safety guidelines.

## TECHNICAL TABLE

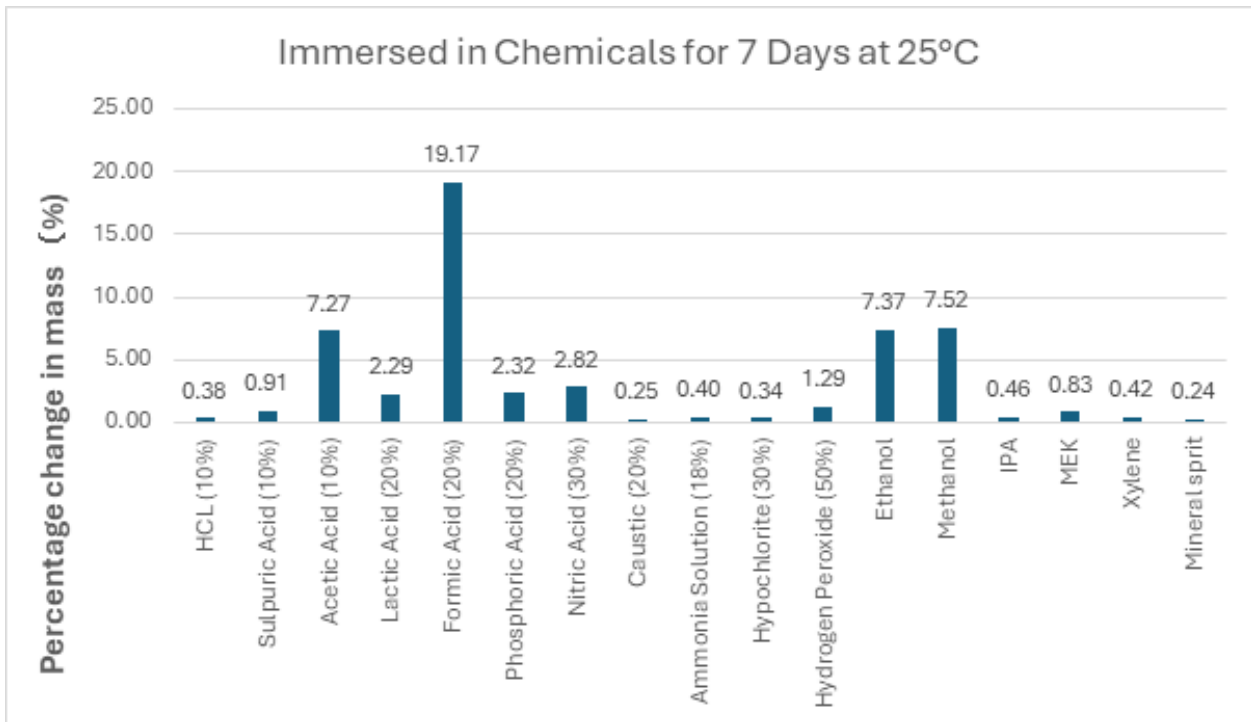
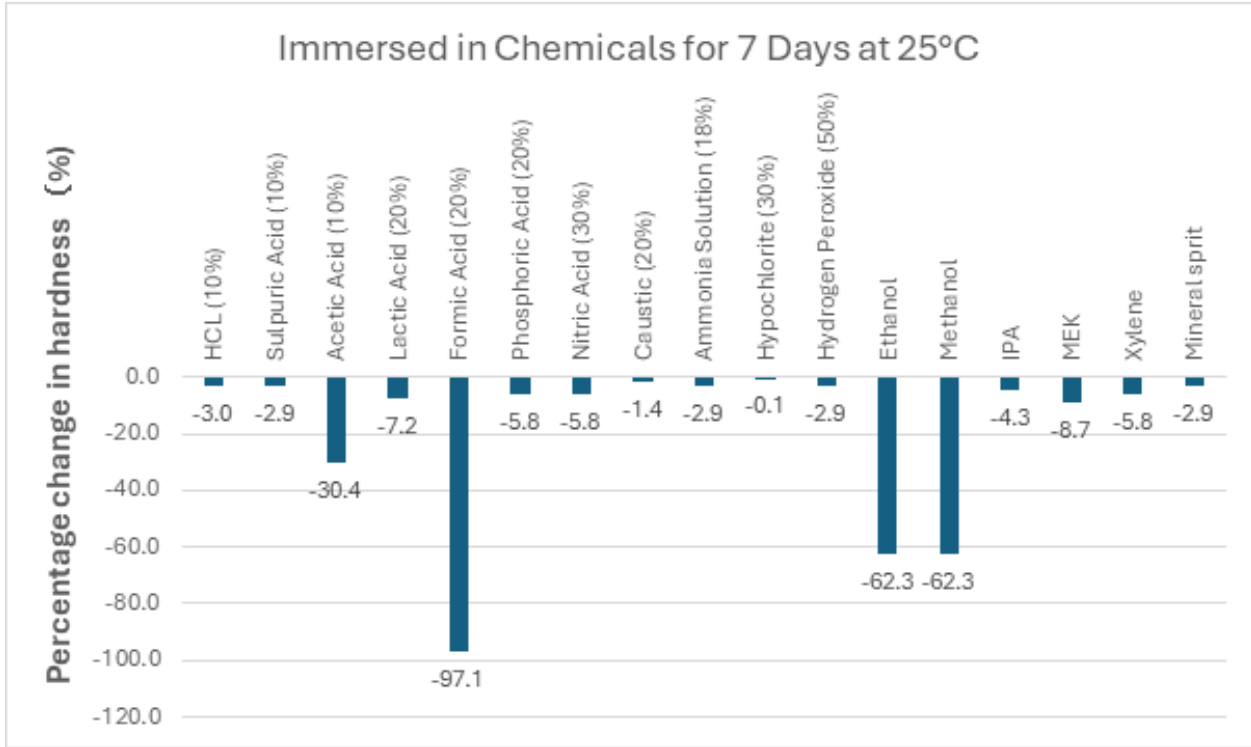
| Property                                     | Test Method | Result                                                     |
|----------------------------------------------|-------------|------------------------------------------------------------|
| Component                                    | -           | Three : Part A: Base<br>Part B: Hardener<br>Part C: Filler |
| Mixed form                                   | -           | Viscous liquid                                             |
| Color                                        | -           | Various colors available                                   |
| Mix ratio (Part A : Part B : Part C)         | Theoretical | 100 : 35 : 135                                             |
| Mix Density                                  | ASTM D 145  | 1.6 ± 0.5 g /cc                                            |
| Pot life (300g mix) @ 25°C                   | -           | 35 – 60 minutes                                            |
| Drying time                                  | -           | 5 – 6 hours                                                |
| Recoat time                                  | -           | 10 – 24 hours (Depending upon<br>nature of substrate)      |
| Full Cure                                    | -           | 7 Days                                                     |
| Coverage per kg material @<br>1 mm thickness | -           | 6.0 – 7.0 SFT                                              |
| Flexural Strength (MPa)                      | ASTM D 790  | 33.7 @ 7 Days                                              |
| Compressive Strength (MPa)                   | ASTM D 695  | 79.6 @ 7 Days                                              |

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

## CHEMICAL RESISTANCE CHART

| Chemicals Solutions                                                             | Chemical Resistance |
|---------------------------------------------------------------------------------|---------------------|
| HCL (10%)                                                                       | ★★★★                |
| Sulphuric Acid (10%)                                                            | ★★★★                |
| Acetic Acid (10%)                                                               | ★★                  |
| Lactic Acid (20%)                                                               | ★★                  |
| Formic Acid (20%)                                                               | NR                  |
| Phosphoric Acid (20%)                                                           | ★★                  |
| Nitric Acid (30%)                                                               | ★★                  |
| Caustic (20%)                                                                   | ★★★★                |
| Ammonia Solution (18%)                                                          | ★★★★                |
| Hypochlorite (30%)                                                              | ★★★★                |
| Hydrogen Peroxide (50%)                                                         | ★★★★                |
| Ethanol                                                                         | ★                   |
| Methanol                                                                        | ★                   |
| IPA                                                                             | ★★★★                |
| MEK                                                                             | ★★                  |
| Xylene                                                                          | ★★★★                |
| Mineral Spirit                                                                  | ★★★★                |
| <b>KEY</b><br>★ (Fair)<br>★★ (Good)<br>★★★★ (Excellent)<br>NR (not Recommended) |                     |

## CHEMICAL RESISTIVITY TABLE





PRINTED



UNIVERSAL



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## NOTE:

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