

**RESSI EPO floor Plus** is a three-component flooring system. This is an economical moderate gloss flooring system designed for heavy duty wear resistance. **RESSI EPO Floor Plus** is based on a modified bisphenol A Based Formulation along with Polyamide based curing agents and specially selected epoxy compatible aggregates. **RESSI EPO Floor plus** is primarily designed for concrete and cementitious substrates but is also compatible with a variety of other substrates such as wood, metal, fiberglass and selected plastics. **RESSI EPO Floor Plus** is designed to be applied at thicknesses between 1500 microns to 4000 microns.

## ADVANTAGES

- ✓ **Excellent Mechanical Properties:** Provides superior strength and durability for heavy-duty applications.
- ✓ **Can be easily overcoated:** Compatible with any Epoxy or PU coating for additional protection and versatility.
- ✓ **Excellent abrasion resistance:** Ensures long-lasting performance with minimal wear overtime.
- ✓ **Excellent adhesion:** Adheres well to various concrete surfaces for reliable application.
- ✓ **Excellent resistance to impact:** Withstands heavy impacts without damage, ensuring longevity.
- ✓ **Early development of initial hardness:** Quickly achieves significant hardness, reducing downtime.
- ✓ **3 to 4 times stronger than typical concrete:** Offers exceptional strength and durability compared to standard concrete.
- ✓ **Good bond strength:** Forms a strong bond with substrates, preventing delamination.

## TYPICAL INSTALLATIONS

- Manufacturing Plants
- Kitchens
- Food Processing
- Hospitals
- Restaurants
- Pharmaceuticals
- Research labs

## 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** or any other appropriate crack filler recommended by Ressichem. Uneven concrete should be levelled to produce flat surfaces. New concrete floors should be atleast 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 and allowed to become tacky (10 – 20 mins before the application of **Ressi EPO Floor Plus**. The primer should be allowed to dry. If the primer has dried, additional coat of primer should be applied and allowed to become tacky.

## 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

Lay **Ressi EPO Floor Plus** over the prepared surface whilst the primer is still tacky. Spread out with a notched trowel to a uniform thickness between 3mm to 5mm. The minimum recommended thickness of **Ressi EPO Floor plus** is 3mm. 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 Floor Plus** may be placed over a hot water bath.

## PACK SIZE

**Ressi EPO Floor Plus** is available in the following packaging

<b>2.8 KG</b>	Part A 1 KG Part B 400g Part C 1.4 KG
<b>28 KG</b>	Part A 10 KG Part B 4 KG Part C 14 KG
<b>56 KG</b>	20 KG Part A 8 KG Part B 28 KG Part C

## 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 AND SAFETY

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

## TYPICAL PROPERTIES

Property	Test Method	Value
Component	-	Three: Part A: Base Part B: Hardener Part C: Filler
Mixed Form	-	Viscous Liquid
Color	-	Various Colors Available
Mix ratio (Part A : Part B : Part C)	Theoretical	100 : 40 : 140
Mix Density	ASTM D 1475	1.6 ± 0.05 g /cc
Pot life (300g mix) @ 25°C	-	45 – 60 minutes
Drying Time	-	6 - 7 Hours
Recoat Time	-	10 – 24 hours (Depending upon nature of substrate)
Full Cure	-	7 Days
Coverage per kg material @ 1 mm thickness	-	6.5 SFT
Flexural Strength (MPa)	ASTM D790	35.2 @ 7 Days
Compressive Strength (MPa)	ASTM D695	80.5 @ 7 Days



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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.