

Ressi EPO floor Plus is a three Component Epoxy Flooring System. This is an economical solution for providing a durable seamless floor finish that can withstand heavy Traffic and Wear.

## ADVANTAGES

- ✓ Excellent Mechanical Properties
- ✓ Can be easily overcoated with any Epoxy or PU Coating
- ✓ Excellent abrasion resistance and adhesion to various Concrete surfaces
- ✓ Excellent resistance to impact
- ✓ Early development of initial hardness
- ✓ 3 to 4 times stronger than typical concrete
- ✓ Good bond strength

## 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. 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 2% 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 Ressicchem. 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 32 KG Packs

Part A: 12KG – Resin Bucket

Part B: 4 KG – Packed in a Can

Part C: 16 KG – Filler Sack

## 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 AT 25°C

Property	Test Method	Value
Component	-	Three: Part A: Base Part B: Hardener Part C: Filler
Mixed Form	-	Viscous Liquid
Color	-	Various Colors Available
Mixed Density	ASTM D 1475	1.75 KG / Ltr $\pm$ 0.5
Pot Life		45-60 mins
Gel Time		90 mins $\pm$ 20
Drying Time		6-7 Hours
Recoat Time		10 – 24 Hours
Full Cure		7 Days
Bond Strength	ASTM D 4541	>2.5 N/mm <sup>2</sup> at 7 Days
Flexural Strength	BS 6319-3	30 N/mm <sup>2</sup> at 7 Days
Compressive Strength	BS 6319-2	75 N / mm <sup>2</sup> at 7 Days
Tensile Strength	BS 6319-7	17 N / mm <sup>2</sup> at 7 Days
Chemical Resistance		Resistance to Various chemicals like mild acids, alkalis, fuels, grease, petrol etc.
Toxicity	BS 6920-1	Non-Toxic
Application Temperature		+5°C to +40°C
Service Temperatures		+6°C to +70°C