

Ressi EPO Roll Coat Plus is a solvent based pigmented epoxy coating material mainly designed for concrete and cementitious surfaces of both floors and walls. **Ressi EPO Roll Coat Plus** is based on diluted Bisphenol A based Resins and Diluted Polyamide based curing agent. The recommended thickness for **Ressi EPO Roll Coat Plus** is from 50 to 200 microns in a single coat. **Ressi EPO Roll Coat Plus** is also suitable for a variety of substrates such as wood, metal, fiberglass and selected plastics. Its anti-fungal and anti-bacterial properties make it an ideal coating for vertical wall applications for hospitals and other health care facilities.

ADVANTAGES

- ✓ Suitable for multi-layer applications
- ✓ Easy to apply
- ✓ Does not support algae or fungal growth
- ✓ Good resistance to sea water and solvents
- ✓ Suitable for old and new concrete surfaces.

TECHNICAL TABLE

Property	Test Method	Result
Appearance Part A	Visual	Low Viscosity, colored liquid
Appearance Part B	Visual	Low Viscosity, Yellow to Brown Liquid
Mix ratio (Part A : part B)	Theoretical	100 : 33
Mix viscosity @ 25°C	ASTM D2196	250 – 500 cPs
Mix Density	–	1.09 g/cc
Coverage per kg material @ 100 micron thickness	–	68 – 70 SFT
Solid Content	–	65 – 70 %
Working Time @ 25°C	–	>1 hour
Hardening time	–	24 hours
Full Cure	–	7 days

Typical Results under laboratory conditions

Note: At 40°C gel time will be reduced to half, in case of increased temperatures, pouring should be planned accordingly.

SURFACE PREPARATION

Steel: The base metal should be roughened and preferably shotblasted with grit. Where shot blasting is not possible pre-treatment may be carried with tap hammers, rotary wire brushes or by flame scaling. Cleaning with solvent or a strong detergent is advisable to ensure the surface is free from grease, oil, paint, and other contaminants. **Ressi EPO Roll Coat Plus** must be applied before the oxidation of steel occurs. Surface defects revealed by the blast cleaning process, should be treated in an appropriate manner with a suitable repair mortar within the Ressichem patch series of material which is compatible with both steel and subsequent epoxy materials.

CONCRETE / CEMENTITIOUS SURFACES:

Concrete and cementitious surfaces must be dry, clean, and free from mold, oil, curing compound, dirt, grease, oil, or excessive laitance. Surface should be prepared by suitable mechanical means. To provide an open pore surface. Cracks, pinholes, potholes, etc. should be routed out and repaired with a suitable epoxy-based crack / void filler from the Ressichem range for the repair of Uneven concrete surface. The concrete surface should be levelled to produce a roughened flat surface. Undulated floors can be levelled / repaired using suitable floor repairing materials from the Ressichem range prior to application of **Ressi EPO Roll coat Plus**. All internal corners should be covered using a suitable epoxy compatible material from the Ressichem range or as approved by the consultant or client having samples on site applied and approved. Sharp edges should be rounded off. New concrete floors must be at least 28 days old prior to application. Moisture content of concrete surfaces must be less than 5%.

MIXING

Ressi EPO Roll coat Plus is supplied in premeasured packs. Bases and hardeners should be stirred separately before mixing. After stirring individually, transfer base into mixing container, mix for a minute. Add hardener components and mix using a slow speed drill machine fitted with a paddle mixer for two minutes to get a uniform mix. Scrape the sides, edges and the bottom of the mixing container using a spatula and continue mixing for further 1 minute.

APPLICATION

Ressi EPO Roll coat Plus mixed as above can be applied using a suitable squeegee, stiff nylon brush or roller. Work the material into the surface to ensure total absorption into the substrate. Finish off using a medium-to-long nap roller.

Make sure that the required application rates are achieved to ensure minimum dry film thickness per coat. Spray application is also a preferred method to accurately obtain the required dry film thickness.

Minimum of 2 coats should be applied to achieve the desired performance. Prior to the application of each coat the surface should be examined for signs of pinholes, cavities etc. where pinholes are apparent these can be filled using either **Ressi EPO Crack Fill** or **Patch Epoxy 111** Repair Mortar. The second coat should be applied at right angles to the first to get the desired dry film thickness. Second coat should be of different color than that of the coat.

For large water tank areas where coating is expected to undergo high pressure, it can be strengthened by using 3 coats and fiber glass mesh. Consult Ressichem for details.

LIMITATIONS

At higher temperature pot life will be reduced. For working in cold climates (<5°C) **Ressi EPO Roll coat Plus** containers need to be kept in hot water bath.

PACK SIZE

Ressi EPO Roll Coat Plus is available in the following pack

1.33 KG	Part A 1 KG Part B 330g
13.3 KG	Part A 10 KG Part B 3.3 KG
26.6 KG	Part A 20 KG Part B 6.6 KG

COVERAGE

Approximately 68-70 SFT / Coat @ 100 Micron thickness. Actual coverage rates may vary according to the substrate porosity and texture, wastage factors, site, and application conditions, etc. it is advisable to apply the material in a small area where it is to be applied to get a general idea of material coverage.

SHELF LIFE

12 months from the date of manufacture when stored under dry sheltered warehouse conditions in original unopened packaging. Extreme temperature / humidity may reduce shelf life.

HEALTH AND SAFETY

Gloves, goggles & suitable masks can be worn. Do not reuse containers, dispose them off as per local rules and regulations. Please refer to the product MSDS for further health and safety information.