

RESSI EPO Roll Coat is a Solvent Free Epoxy Coating material designed to be applied at a thickness between 100 microns to 1500 microns in a single coat over concrete, cementitious substrates and steel. It is suitable for both wall and floor applications. **RESSI EPO Roll coat** is made from Bisphenol A Based Resins and selected polyamide based hardeners. **RESSI EPO Roll coat** is also compatible with a variety of other substrates such as wood, metal, fiberglass and selected plastics. **RESSI EPO Roll Coat** can be applied to steel and concrete internal tank surfaces to provide low to moderate corrosion resistance, protection against oils, chemical wastewater, etc. it can also be used as water-proofing for tanks and reservoirs containing water intended for human consumption. Other areas of application include silos, wastewater treatment plants, canning and bottling units, food processing plants, etc.

ADVANTAGES

- ✓ Solvent free, high build, nontoxic.
- ✓ Does not support algae, fungal growth.
- ✓ Suitable for use in confined areas and potable water tank applications.
- ✓ Excellent resistance to seawater and solvents.
- ✓ Suitable for old and new concrete surfaces

TECHNICAL TABLE

Property	Test Method	Result
Component	-	Two : Part A: Base Part B: Hardener
Mixed form	-	Liquid
Color	-	Various colors available
Mix ratio (Part A : Part B)	Theoretical	100 : 40
Mix Density	-	1.14 g /cc
Coverage per kg material @ 200 micron thickness	-	45 – 47 SFT
Pot life (300g mix) @ 25°C	-	35 – 45 minutes
Hardening time	-	6 – 8 Hours
Full Cure	-	7 Days
Recoat time	-	8 – 24 Hours (Depending upon nature of substrate)
Bond Strength	ASTM D4541	> 1.5 N/mm ²

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

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** 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**. 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 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 component 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 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** Containers need to be kept in hot water bath.

PACK SIZE

Ressi EPO Roll Coat is available in the following pack sizes:

1.4 KG	Part A 1 KG Part B 400g
14 KG	Part A 10 KG Part B 04 KG
28 KG	Part A 20 KG Part B 08 KG

COVERAGE

Approximately 25 to 30 SFT / Coat @ 300 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.