RESSI EPO CLEAR COAT - WALLS

Clear Epoxy Wall Coating

RESSICHEM®
adding life and value to your property

Ressi EPO Clear Coat Walls is a two-component solvent free low viscosity clear wall coating. Ressi EPO Clear Coat Walls is based on bisphenol A based Resins and a low viscosity cycloaliphatic amine based curing agent. The complete formulation of this product is solvent free. It is mainly designed for cementitious substrates such as concrete and plaster but also compatible with a variety of substrates such as wood, metal, fiberglass and selected plastics.

ADVANTAGES

- ✔ **Solvent Free**: Ensures minimal environmental impact and reduced odor during application.
- ✔ **High Build**: Multiple coats can be applied to build up thickness over vertical surfaces.
- ✔ **Low Viscosity**: Provides excellent penetration and adhesion to various substrates.
- ✔ **Durability:** Offers long-lasting protection against wear and chemical exposure.
- ✔ **Clear Glossy Finish**: Maintains the aesthetic appeal of the underlying substrate.
- ✔ **Ease of Application**: Two-component system ensures efficient mixing and application.

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. **Patch Epoxy 111** (Epoxy based repair mortar) can also be used for its repair.

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. **Ressi EPO Crack Fill** is a suitable crack filler recommended for such applications. Uneven concrete surface should be levelled to produce a roughened flat surface. Undulated floors can be levelled / repaired using Ressi SLS 610, Ressi PFS 620 or Ressi EPO FS 5000 prior to application of **Ressi EPO Roll coat**. All internal corners should be covered using patch 365 plus or a suitable polymer modified repair mortar from the Ressichem range of products. 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%.

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مضبوطی اور پائیداری کے لئے

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MIXING

Ressi EPO Clear Coat Walls 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 to 4 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 Clear Coat Walls 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. However, if the viscosity needs adjustment, some solvent loading on site can be done after confirmation from Ressichem technical team and prior on site successful trials and approvals. 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 or repaired by either recoating or using a suitable repairing material from the Ressichem Range. The second coat should be applied at right angles to the first to get the desired dry film thickness. The 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 Clear Coat Walls** Containers need to be kept in hot water bath. This material cannot be applied in areas exposed direct to sunlight.

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PACK SIZE

Ressi EPO Clear Coat Walls is available as follows:

1.5 KG:	Part A 1 KG Part B 500g
15 KG:	Part A 10 KG Part B 5 KG
30 KG:	Part A 20 KG Part B 10 KG

COVERAGE

90 SFT / KG / Coat of 100 Microns 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 warehouse conditions in original unopened packaging. Extreme temperature / humidity may reduce shelf.

HEALTH AND SAFETY

Dispose containers of the materials as per local laws, rules, and regulations. Use gloves, safety masks and other safety apparel as per health and safety laws. For further assistance, please refer to the MSDS of the product for further health and safety information.

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TECHNICAL DATA

Property	Test Method	Result
Appearance Part A	Visual	Medium Viscosity, Clear Liquid
Appearance Part B	Visual	Low Viscosity, Clear Liquid
Mix ratio (Part A : part B)	Theoretical	100 : 50
Mix Density	-	1.09 g/cc
Coverage per kg material @ 1 mm thickness	-	9 – 10 SFT
Flash Point	ASTM D93	> 126°C
Pot Life (300g mix) @ 25°C	–	40 – 60 minutes
Gel Time	–	2 hours
Hardening time	–	36 hours
Full Cure	–	7 days
Flexural Strength (MPa)	ASTM D790	82.1 @ 7 Days
Compressive Strength (MPa)	ASTM D695	116.5 @ 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.

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