

Neropoxy 554 (RPL) Zinc Rich Primer

Product Description

Metallic zinc dust as per ASTM D520 (Type II) dispersed in Epoxy binder with separately packed clear polyamine hardener.

Recommended Use

Neropoxy 554 zinc rich primer coating is recommended for use under corrosive conditions on blast cleaned surfaces and designed as a system primer in various paint systems. Zinc content is 80% on dry film and performance requirements are as per SSPC Paint 20.

PHYSICAL PROPERTIES

Colour	Grey
Finish	Matt
Temperature Resistance	Non-continuous: 120°C, Continuous: 100°C

Product Features

Excellent anticorrosive properties
Excellent adhesion to prepared surface
Excellent resistance to highly corrosive & humid conditions

Product Details

Volume solids



60 ± 3%

DFT/Coat



50 - 100 µm

VOC (EPA Method 24)



370 gm/Lit

Theoretical Coverage/Coat



6 – 12 m²/ltr.

Pack size

20 Ltr.: (16 Ltr.-Part A+ 4 Ltr. Part B = 20 Ltr. Mix).

Drying at 30°C & 65% RH

Surface (Touch) Dry	15 – 30 Minute
Hard Dry	8 - 10 Hrs.
Full Cure	7 Days

Overcoating Interval

Temp	20°C	30°C	40°C
Min	8 Hrs.	4 Hrs.	3 Hrs.
Max	30 days	30 days	30 days

The drying time varies with respect to changes in temperature, humidity & DFT.
After max. overcoating interval the surface should be roughened prior to application of subsequent coat.

Neropoxy 554 (RPL) Zinc Rich Primer

Surface Preparation

For Newly Build:

Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SSPC SP 10 – Stainless steel, aluminum and other non-ferrous metals use non-metallic blast media like garnet. Remove sharp profile, without blank spots, remove dust & loose particles.

For Old Surface / Maintenance and Repair:

Abrasive blasting to min. Sa 2 (ISO 8501-1) / SSPC SP 6, Water jetting to min Wa 2 (ISO 8501-4). Areas also can be cleaned by power tool to St 3 provided the surface is roughened and not polished.

Surface Cleanliness:

- Remove oil, grease and other contaminants by suitable cleaner as per SSPC-SP1
- Remove dust, blast media and loose particles
- Surface should be clean & dry before applying coating

Application Instructions

Stir Comp. A until uniform. If settling is observed in component A, loosen the settled material & mix it with the help of pneumatic stirrer. Mix component B gradually into component A in the specified ratio under continuous stirring till homogeneous. Use Nerolac Epoxy thinner.

Mixing Ratio by Volume

Component A : Component B

4 : 1 By Volume

Pot Life

Up to 4 hrs. at 30°C

Curing Mechanism

Solvent release and chemical reaction between two components.

Thinner Consumption

Airless Spray

0 – 10%

Brush

0 – 10%

Conventional spray

5 – 15%

The product can be applied by:

- Airless Spray – Nozzle pressure: 175 bar [2500 psi] Nozzle orifice: 0.017–0.019"
- Conventional Spray
- Brush

During application following precautions should be taken:

- Relative humidity must be below 85% during application as well as during curing
- Do not allow material to remain in hoses, gun or spray equipment
- Clean all equipment with recommended thinner immediately after completion of job

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Environmental Conditions

Surface temperature must be 3°C above Dew Point to prevent condensation.

Air	5 – 40°C
Surface	5 – 50°C
Relative Humidity	Below 85%

Storage & Shelf Life

12 months under normal storage condition in original sealed containers at 30°C and well ventilated area. Heavy pigments will have a natural tendency to settle down over time. Mix uniformly with heavy duty stirrer prior to usage. Hard settling may occur if stored above the recommended storage temperature.

Safety Precautions

Please refer to the Material Safety Data Sheet.

Product Compatibility

Can be top coated with High Build Epoxy Mastics, Epoxy MIO, & Epoxy / PU DTM.

Special Notes

Thinner consumption may vary depending upon site conditions. Practical covering capacity depends on application techniques, ambient conditions, wastage, surface condition etc. The drying time and overcoating interval vary with respect to change in temperature, humidity, film thickness, ventilation, thinner intake etc.

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