

Nerosil 118

Product Description

Prehydrolysed ethyl silicate binder with separately packed zinc dust powder.

Recommended Use

Nerosil 118 is a two-pack solvent based self-curing inorganic zinc silicate coating. It exhibits outstanding application characteristics over a wide range of atmospheric conditions and outstanding resistance to weathering, UV exposure and marine environment. As a primer with recommended topcoats, it is resistant to industrial chemical exposure as well as marine exposure above the splash zone. It is recommended for structural steel piping, tank exteriors, bridges, offshore platforms, marine superstructures, decks and other structures above the water line. It also has excellent resistance to petroleum products, alcohols and solvents. Zinc on dry film is 80% on weight basis and the specification of the zinc dust is as per ASTM D520 Type II.

PHYSICAL PROPERTIES

Colour	Grey
Finish	Smooth & Matt
Temperature Resistance	Non-continuous: 550°C, Continuous: 400°C

Product Features

Excellent adhesion to steel surfaces
 Excellent resistance to water and sea water
 Excellent resistance to highly corrosive & humid conditions

Product Details

Volume solids	DFT/Coat	VOC (EPA Method 24)	Theoretical Coverage/Coat
			
60 ± 2 %	65 - 90 μ	348 gm/Lit	6.66 - 9.23 m ² /ltr.

Pack size

26 Ltr.: (20.80 Ltr. -Part A + 5.20 Ltr. Part B = 26 Ltr. Mix).

Drying & Overcoating at 30°C & 65% RH

Surface (Touch) Dry	15 – 20 Mins.
Hard Dry	8 Hrs
Overcoating	Minimum 16 Hrs, depending on DFT, humidity, temperature and ventilation. Maximum 3 months, provided surface is dry, clean & free from any contaminants.

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Surface Preparation

For Newly Build:

Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SSPC SP 10 – Stainless steel, aluminium 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:

Not Recommended for Maintenance

Surface Cleanliness:

- Remove oil, grease and other contaminants by suitable cleaner
- Remove dust, blast media and loose particles
- Surface should be clean & dry before application of coating

Application Instructions

Stir the Comp. A until uniform. If settling is observed in the 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 recommended thinner as specified.

Mixing Ratio by Volume

Component A : Component B

40 : 60 By Weight

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%

Conventional Spray

0 – 10%

The product can be applied by:

- Airless Spray – Nozzle pressure: 175 bar [2500 psi] Nozzle orifice: 0.017–0.021"
- Conventional Spray

During application following precautions should be taken:

- Relative humidity must be above 50% 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
- Maintain constant agitation after mixing part B with part A, until the batch is fully consumed.
- Maintain optimum distance between the spray gun and substrate to get a smooth and wet coating just after application.
- If the Relative Humidity is below 50%, sprinkle fresh water after 15 mins – 1 hr of primer application and keep the surface wet until full cure.
- If temperature of the substrate is more than 40°C, application should be done after extra thinning of paint to avoid dry spray.

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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	Above 50%

Storage & Shelf Life

Liquid: 06 months under normal storage condition in original sealed containers at 30°C

Powder: 24 months under normal storage condition in original sealed containers at 30°C

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 overcoated with suitable Epoxy MIO based intermediate coat and High Build Epoxy Coatings.

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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