

Nerotherm 538

Product Description

Aluminium paste dispersed in silicone binder.

Recommended Use

Nerotherm 538 is a high performance, high temperature resistant, silicon aluminium base coating. It can also be applied over inorganic zinc silicate primers for enhanced corrosion protection. It is typically applied on structures exposed to high temperatures such as stacks, pipes, chimneys in chemical plants, power plants, oil production and refinery plants.

Product Details

PHYSICAL PROPERTIES

Color	Aluminum
Finish	Lustrous
Temperature Resistance (Dry)	Max 600°C

PRODUCT FEATURES

Excellent resistance to dry heat up to 600°C	Excellent adhesion to zinc silicate primer
Not Recommended in confined space & immersion Condition	Excellent corrosion resistance with zinc silicate primer as undercoat

Product Details

Volume solids



20 ± 2%

DFT/Coat



15 - 25 μ

VOC (EPA Method 24)



688 gm/Lit

Theoretical Coverage/Coat



8.0 – 13.3 m²/ltr.

Pack size

4 Ltr. & 20 Ltr.

Drying at 30°C & 65% RH

Surface (Touch) Dry	30 mins
Hard Dry	16 – 18 Hrs.
Stoving schedule	01 Hrs. at 150°C
Full Cure	7 Days

Recoating Interval

Temperature	20°C	30°C	40°C
Min	16 Hrs.	10 Hrs.	6 Hrs.
Max	5 days	5 days	5 days

The drying time varies with respect to changes in temperature, humidity & DFT.

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Surface Preparation

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, then apply one coat of zinc silicate primer. The primer must be clean dry and free from moisture grease and other contaminants. Surface profile of max 10 micron is acceptable if applied as DTM.

Surface Cleanliness:

- Remove oil, grease and other contaminants by suitable cleaner as per SSPC SP-1
- Remove dust, blast media and loose particles
- Surface should be clean & dry before application of coating

Application Instructions

Stir the paint in the drum until homogenous. If settling is observed in drum, loosen the settled material & mix it with the help of pneumatic stirrer. Use Nerolac recommended thinner as specified.

Mixing Ratio by Volume

Component A : Component B	NA
Pot Life	NA
Curing Mechanism	Solvent release and heat curing

Thinner Consumption

Air Assisted Spray	5 – 15%
Airless Spray	0 – 10%
Brush	0 – 10%

The product can be applied by:

- Airless Spray – Nozzle pressure: 175 bar [2500 psi] Nozzle orifice: 0.015"–0.017"
- Conventional Spray / Air Assisted 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

Environmental Conditions

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

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

Storage & Shelf Life

12 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.

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Safety Precautions

Please refer to the Material Safety Data Sheet.

Product Compatibility

Compatible over Suitable Zinc Silicate Primer.

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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