# Nerosil 160

## Scope

Nerosil 160 is a two-pack solvent based self-curing inorganic zinc silicate coating. It exhibits outstanding resistance to 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.

Product conforms to SSPC- Paint 20 (Level 2). The type of zinc dust used complies with ASTM D 520 (Type II)

## Composition

Pre hydrolysed ethyl silicate binder with separately packed zinc dust powder. Zinc on dry film 80%.

| | |
|---|---|
| Volume solids | 60 % (Minimum) |
| DFT / Coat | 65 - 90µm |
| Theoretical Coverage /Coat | 8 m² /lit @ 75µ. |
| VOC (EPA Method 24) | 344 gm/Lit |
| Product Weight | 2.10 kg/lit |

## Product Details

| | |
|---|---|
| Type | Two Pack |
| Mixing Ratio | By weight |
| Component A | 40 parts |
| Component B | 60 parts |
| Colour | Grey |
| Gloss | Matt |
| Pot Life | 4 Hrs. at 30°C. |
| Curing Mechanism | Solvent release and chemical reaction between the components |
| Temperature resistance-Dry | 400°C |
| Flash Point (Liquid) | Above 15°C |
| Over coating Time | 24 Hrs. |
| Drying Time (30°C) | |
| Surface Dry | 15 Maximum. |
| Hard Dry | 2 Hrs. |
| Cure of Immersion | 7 Days |
| Thinner | Range of Nerosil Thinner |
| Thinner Consumption | |
| Conventional Spray | 2 - 15% |
| Airless Spray | 0-10% |
| Brush | 0 - 15% |

## Application Details

**Applied over:**
Blast cleaned steel

**Application Method:**
Conventional spray / Airless spray

**Shelf Life:**
6 months (for liquid) and 24 months (for powder) under normal storage condition in original sealed containers at 30°C

**Pack Size:**
26 ltrs : (20.8 Lits - Part A + 5.2 Lits Part B = 26 lits Mix).

**Surface Preparation:**
Before applying the primer, all surfaces must be clean, dry and free to from mill scale. Blast cleaning to Sa 2.5 of International Standard ISO 8501:1 2007 is the only satisfactory method of preparing steel surfaces.

**Application Instruction:**
If settling is observed in the drum, loosen the settled material & mix with pneumatic stirrer till homogeneous.

**Environmental Conditions:**
Surface temperature must be at least 3°C above Dew Point to prevent condensation.

**Temperature:**

| | |
|---|---|
| Air | 5 - 40°C |
| Surface | 5 - 50°C |
| Relative Humidity | 50 - 90% |

**Special Notes:**
Thinner consumption may vary depending upon site conditions. Practical covering capacity depends on application techniques, ambient conditions, wastage, surface condition etc. While top coating, a mist coat may be required to minimize application bubbling. Like all inorganic zinc silicate coatings, Nerosil 160 alone is not suitable for immersion or spillage of acidic or alkaline solutions. Pot life and curing are influenced by temperature and humidity.

**Safety Precautions:**
Please refer to the Material Safety Data Sheet.



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