



PRODUCT DATA SHEET

NIPPON NIOZ**Product Description:**

NIPPON NIOZ is a two-pack solvent based coating based on Ethyl Silicate and Zinc Dust. It is suitable for use on steel as a shop primer, as a primer for high performance system and as a single treatment coating for a variety of marine environment. It prevents corrosion and provides excellent resistance to weathering, abrasion, impact, heat and many solvents.

Primer/topcoat systems based on NIPPON NIOZ and specified topcoats are suitable for severe corrosive services such as offshore platforms, petrochemical complexes, gas and petroleum refineries, pulp and paper mills and corrosive chemical plants.

Physical Characteristics of Paint:

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| Colour | : Grey |
| Finish | : Matt |
| Specific Gravity | : 2.06 + 0.05 (for mixture of Binder & Zinc Dust) |
| Solid Content | : 47 + 2% by Volume (for mixture of Binder & Zinc Dust) |
| Abrasion | : Good resistance to abrasion and mechanical damage |
| Adhesion | : Excellent on correctly prepared surfaces |
| Temperature | : Dry service temperature range up to 400°C |

Recommendation for Use:**Surface Preparation****Steel Surfaces**

The surface to be painted should be abrasive blasted to minimum SA-2.5 Swedish Standard. For optimum performance, abrasive blasting in accordance to SA-3.0 (SIS 05 59 00 / ISO 8501-1) is desirable. It is important that the standard should be maintained until the paint is applied on. If rust bloom begins to form before the steel surface is coated, it will be necessary to reblast the steel. The surface must be dry and free from any abrasive residues, dirt, oil and grease and other contaminants prior to painting.

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| Recommended No. of Coats | : 1 coat |
| Recommended Film Thickness per coat | : a) <u>As a shop Primer</u> 25 microns for dry film 53 microns for wet film |
| | : b) <u>As a general purpose Primer</u> 50 microns for dry film 107 microns for wet film |

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| | c) <u>For use uncoated</u> 75 microns for dry film 160 microns for wet film |
| Theoretical Coverage at Recommended Film Thickness | : 18.7 m ² / liter (for dry film thickness of 25 microns) 9.4 m ² / liter (for dry film thickness of 50 microns) 6.2 m ² / liter (for dry film thickness of 75 microns) Theoretical Coverage = $\frac{\text{Volume Solid (\%)} \times 10}{\text{Dry Film Thickness (\mu)}} \text{ (m}^2\text{/ liter)}$ |
| Practical Coverage (20% Loss Factor) | : 15.0 m ² / liter (for dry film thickness of 25 microns) 7.5 m ² / liter (for dry film thickness of 50 microns) 5.0 m ² / liter (for dry film thickness of 75 microns) |
| Note : This theoretical coverage rate has been calculated from the volume solid of the material and is related to the amount of coating applied onto a perfectly smooth surface without wastage. For a practical coverage rate, due allowance should be made for atmospheric conditions, surface roughness, geometry of the article being coated, the skill of applicator, method of application etc. when estimating quantities required for a particular job. | |

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| <u>Application Data:</u> | |
| Application Methods | : Preferably compressed air spray. For touching up small areas brush can be used. |
| Thinning | : Roller & Brush 10% maximum Compressed Air Spray 25% maximum |
| Mixing Ratio | : 1 part by weight of Binder (NIOZ PRIMER (PACK A)) to 1.43 parts by weight of Zinc dust (NIOZ PRIMER (PACK B)). Dilution should be done after the addition of hardener. |
| Pot Life at 25°C to 30°C | : 6 hours |

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| Thinner | : NIPPON ZS 100 THINNER |
| Cleaning Solvent | : NIPPON ZS 100 THINNER |
| Note: All equipment should be cleaned IMMEDIATELY with Thinner after use. For thinning, substitute thinners other than those approved or supplied by Nippon Paint may adversely affect the product performance and void product warranty whether expressed or implied. | |

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| <u>Drying Time at 25°C to 30°C:</u> | |
| Dry to touch | : Approximately 5 minutes |
| Dry to handle | : Approximately 2 hours |
| Dry to overcoat | : Self re-coating - 3 hours Overcoating with organic coating - minimum 16 hours |
| Curing time at 25°C to 30°C | : 5 - 7 days |
| Note: Drying time will become remarkable under low temperature. Overcoating the previous coat of NIPPON NIOZ should be done within 6 - 7 days but preferably as soon as possible after it has been allowed 16 hours drying or else, it is desirable to roughen it by dry sanding with sandpaper before it is overcoated. This is to ensure proper intercoat adhesion. Exposure of the | |

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paint film to water, chemical and abrasion should be avoided as far as possible before full cure of the coating. When chalking occurs, chalks should be removed by water washing. Allow the surface to dry thoroughly prior to overcoating.

Standard Packing : 4 kg NIOZ PRIMER (PACK A) & 5.7 kg NIOZ PRIMER (PACK B)
16 kg NIOZ PRIMER (PACK A) & 22.9 kg NIOZ PRIMER (PACK B)

Environmental Conditions during Application:

1. Do not apply when the relative humidity exceeds 85%. The temperature of the substrate to be painted must be 3°C higher than the dew point.
2. Do not apply at temperature below 7°C. If not, drying and overcoating time will be considerably extended.
3. During application of the paint, naked flame, welding operations and smoking should not be allowed and good ventilation is necessary.

Safety, Health and Environmental Information:

1. Flammable Liquid. Do not expose to heat, sparks or open flame.
2. Skin Contact: May cause moderate skin irritation. Avoid prolong contact with skin. Use solvent resistant glove. To remove splashes of paint from skin, use soap and water.
3. Inhalation: Respiratory irritation. Only used in well ventilated areas. Do not breathe vapor or spray paint. Respirator with organic vapor cartridges recommended.
4. Eye Contact: Cause severe eye irritation and blurred vision. Safety glasses / goggles with side shields recommended. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
5. Ingestion: Harmful if swallowed. Keep away from drinks, food and out of reach of children. If swallowed, seek medical advice immediately and show the container or label.
6. In the event of an accident, contain and collect spillage using sand or earth or absorbent. Do not empty into drain or water courses.
7. Wastes and empty containers should be treated and disposed of in accordance with national and local regulations. Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.

NOTE: The information given applies to the product and its performance under specific test conditions. Due to the varied circumstances beyond our control under which the product may be applied, for specific application, please contact Nippon Paint Sales & Marketing Dept. We reserve the right to modify our product data sheet without further notice.

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