POWER
For Chemicals and Plast

**Category** **Iron Protection**

TDS: Edition 11/2025


# Eco Guard NS

High-Build Epoxy Primer & Topcoat for Corrosion Protection of Steel and Iron Surfaces

## Description: -

Eco Guard NS is a high-build, pigmented epoxy primer and finish coat designed to provide excellent corrosion and rust protection for steel substrates exposed to severe environmental conditions. It is based on epoxy resin containing solvents and zinc derivatives to ensure cathodic protection. The product is supplied as a two-component system.

## Usage: -

- High-build coating applications requiring substantial film thickness from the first coat.
- Protective coating for steel potable water tanks.
- Protection of reinforcing steel (rebar) against corrosion while enhancing bond strength with concrete.
- Protection of steel pipes, machinery, and steel structures exposed to chemicals and harsh service conditions.
- Protective coating for high-voltage transmission towers and utility poles.
- Coating for operating rooms, hospital facilities, and food storage areas.
- Protection of steel structures, bridges, and road infrastructure.
- Protective coating for water treatment and wastewater treatment facilities.
- Protection of steel structures and storage tanks against attack from salts and chlorides.

## Advantages

- Excellent bond strength between reinforcing steel and concrete.
- Outstanding resistance to adverse weather conditions and humidity.
- Cost-effective solution while maintaining reliable and consistent performance.
- Superior resistance to rust and corrosion on various steel and metal substrates.
- Can be used as either a primer coat or a multi-color finishing coat.
- Easy application without the need for specialized equipment.
- Excellent resistance to chemicals, salts, and oils.
- High abrasion and wear resistance.
- Strong adhesion to a wide range of substrates.
- Extends the service life of machinery, equipment, and industrial steel structures.





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## Characteristics: At 25 degrees

| | |
|---|---|
| color | White / Colored |
| Mixing ratio by weight A to B | 5 : 1 |
| Solid content ratio by weight A to B | 80 % ± 2 % |
| Density kg/liter | 1.6 ± 0.05 |
| Pot life | 4 hours (decreases by increasing the temp.) |
| Initial setting time | 2 hours |
| Final setting time | 24 hours |
| Full hardness | 7 days |
| Second Coat | 12 : 14 hours |
| Rate of use | Approx. 4.5 $m^2$/kg (75 micron) |

## Application instructions: -

### Substrate preparation: -

- The substrate must be cleaned well, and free from dust, oils, grease, and petroleum substances.
- In the case of rust or corrosion on the surface, it is sanded using sanding or any other suitable method.

### Mixing and apply: -

- Stir compound [A], then add the entire content of compound [B] and mix the mixture well using a slow-speed mechanical mixer (300 RPM) until homogeneity.
- If the mixture needs thinning, it is gradually thinned with Power Solve 5, at our factory until reaching the desired and most suitable consistency for application.
- Apply the product using a brush, an epoxy roller, or an air spray gun.
- At least 12 hours must be elapsed before painting a second coat.
- The used tools should be washed immediately after completion with the cleaning solvent Power Solve 1.

## Safety precautions: -

- The product should be applied in a well-ventilated area.
- Gloves, protective clothing, and eye goggles should be worn during application.
- Never eat, drink, or smoke during application.
- In case of skin contamination, wash the contaminated area with water and soap.
- In case of eye contamination, immediately wash with abundant lukewarm water and consult a doctor immediately.
- Avoid spilling residues of the product into water or soil.
- Dispose of product residues or empty containers according to local environmental regulations.

## Packages: -

2 kits compounds [A + B], weight [1, 4, 25 kg].

## Storage: -

The product should be stored for two years in tightly sealed containers and under appropriate storage conditions.







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