# Technical Data Sheet

## *Topxy NF-1420 HT*

***Product Description***

It is a solvent free two component, rust-inhibitive, phenolic resin, polyamide cured epoxy coating for professional use in industrial and commercial applications. Specially recommended to pipe lines and tanks (heating & cooling) where the heat resistance require between - 40 °C up to + 300 °C.

***Product uses:***

- Metal Surfaces; Tank, Pipe lines, Offshore, Marine, Deck Heavy traffic floor coatings.
- Industrial environments which require chemical resistance and corrosion.
- Intended for use on hand prepared rusty ferrous metal, abrasive blast cleaned and hydro-blasted ferrous metal, blasted concrete, and over a wide range of intact aged coatings.
- Use in industrial maintenance, coastal structures, pulp and paper plants, food and beverage plants, structural steel, tank exteriors, bridges, offshore, marine and immersion in fresh or salt water.
- Bridges, tanks, pipes and railroads which require precautions against corrosion and heat resistance.
- Used in plants and industrial sites which require chemical resistance (against thinned acids petrol natural and mineral oils).

**Properties**

- Odorless. And solvent free product
- Good resistance to chemicals and water.
- Excellent anti-condensation property, due to heat differences and prevents corrosion and humidity formation.
- Elastomeric (200%) structure, it seals hair cracks on the surface. It protects its elasticity between - 30 °C and + 250 °C.
- Good adhesion on steel and aged epoxy coatings.
- Hard scratch- and impact-resistant coating.
- Good Compressive strength.
- Highly resistant to a lot of chemicals, oil and sea water and corrosion.
- Solvent- free product; Food hold and warehouse, human health care areas.

***TECHNICAL PROPERTIES***

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| *Appearance/Color* | flat / RAL 7022-RAL 7046- RAL 3016- RAL 6028- RAL 9005 |
| *Density:* | 1.2 kg/liter (Mixed) |
| *Volume solids %:* | 100 % |
| *Theoretical spreading rate:* | 5 m²/ltr (200 micron DFT)<br>4.15 m²/kg (200 micron DFT) |
| *Consumption:* | 0.200-0.250 ltr/ m² (240-260 g/m²) |
| *Recommended DFT:* | 400-500 micron |
| *(Dry Film thickness)* | |
| *Flash Point:* | Not applicable |
| *Pot Life:* | 50 min (23°C and 50% R.H.) |
| *Surface dry:* | 4 approx. hour(s) 23°C/73.4°F 50% R.H |
| *Light foot traffic* | 12-14 hours (23°C and 50% R.H.) |
| *Full dry:* | 24 hours (23°C and 50 % R.H.) |
| *Full cure time:* | 7 days (23°C and 50 % R.H.) |
| *Application temperature:* | +8 °C/46.4° F and +35 °C/ 95°F |
| *Min. cure temperature:* | +10°C/50°F |

***Application Details***

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| *Mixing Ratio:* | Component A: 4– Component B: 1 (By weight) |
| *Application method:* | Brush – Roller – Airless Spray |
| *Thinner:* | Epoxy Thinner (for cleaning) |
| *Thinner Amount:* | Brush (Do not thin) – Roller (Do not thin) - Airless spray ( 5 %) |

***Surface Preparation:***

- Surfaces must be dry, clean and free from contaminants
- Ensure removal of dirt, dust, oil and all other contaminants that could interfere with adhesion of the primer.
- Oil and grease should be removed as per SSPC-SP1 solvent cleaning with aromatic solvents.
- Surface should be checked and treated in accordance with ISO 8504 prior to priming.
- Blast Cleaning:

- Steel, abrasive blast clean to min. Sa 2 1/2 (ISO 8501-1: 200) or SSPC –SP6.
- Incase oxidation has occurred between blasting and application of Top Mastic Epoxy , the surface should be re blasted.
- A blasting profile of (Rz) 30 - 50 microns is recommended
- If blast cleaning is impractical, remove loose rust/ scale using power tools/ hand tools to achieve St3/ St2 grade of surface preparation as per Swedish standards
  - Damaged Area:
- Damage area should be prepared with abrasive blast cleaning to Sa 2½ (ISO 8501-1:2007). When abrasive blasting in small area is not possible, mechanical cleaning to St 3 (ISO 8501-1:2007) is acceptable.
- The product should be applied over a surface that is dry and free from all contamination and must be applied within the over coating intervals specified (refer to application section for details).

***PRECEDING COAT:***

Nothing

***Important Remarks:***

- Surfaces must have enough structural strength.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1, 5 N/mm² tensile strength.
- Applications below 10°C should be avoided.
- High temperatures lower the pot life of the product, while low temperatures extend cure time and consumption.
- Be careful about product mixing ratios.
- The surface should be protected from moisture and rain for 8-10 hours after application.
- All application tools and equipment should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- Use only where application and drying can proceed at temperatures above: 10°C/50°F. The temperature of paint itself should be 15°C/59°F or above. Apply only on a dry and clean surface with a Temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying.
- The natural tendency of epoxy coatings to chalk in outdoor exposure.

***Shelf life & Storage:***

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

***Safety:***

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

***Mixing:***

Before mixing with the curing agent, stir the base thoroughly in order to prevent any possible settling after storage. After mixing it is equally important to maintain stirring to keep the wet paint as a Homogeneous mixture.

***Legal Notice:***

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