



## Topxy NF-4111

### Product Description

A solvent free, two components, high build, polyamine cured epoxy phenolic coating designed to protect substrates against severe chemical attack. Low viscosity and excellent adhesion characteristics ensure a tight bond to properly prepared concrete and steel surfaces. The product has High chemical resistance, low permeability, resist chipping or cracking and has an excellent Abrasion & Corrosion resistant. The product have excellent resistance to water, crude oil, diesel fuel, jet fuel (JP-8, Jet A1) and unleaded gasoline

### Product uses:

As an interior lining in tanks, pipelines etc. for crude oil, fuel, water, produced water and wide range of solvents and acids. . In addition, it can be used for protection of concrete and steel surfaces from severe chemical attack. Used on containment structures to protect steel and concrete floors and walls from concentrated acids. Can be used for Secondary containment, valves, equipment bases, spillways, lab and processing areas (floors and walls).

### TECHNICAL PROPERTIES

<i>Appearance/Color</i>	Glossy / Cream, Grey, Green, Oxide Red
<i>Density:</i>	1.30 kg/liter (Mixed)
<i>Volume solids %:</i>	100 %
<i>Theoretical spreading rate:</i>	5 m <sup>2</sup> /ltr / 3.85 m <sup>2</sup> /kg (200 micron DFT)
<i>Recommended DFT:</i> <i>(Dry Film thickness)</i>	100-200 micron
<i>Flash Point:</i>	>100°C. /212°F
<i>Pot Life:</i>	55 min. (23°C and 50% R.H.)
<i>VOC:</i>	0 g/l
<i>Surface dry:</i>	8 approx. hour(s) 23°C/73.4°F 50% R.H
<i>Hard Dry:</i>	16 hours (23°C and 50% R.H.)
<i>Dry to Over Coat</i>	16 hours (23°C and 50 % R.H.)
<i>Minimum:</i>	
<i>Full cure time:</i>	7 days (23°C and 50 % R.H.)

### Application Details

<i>Mixing Ratio:</i>	Component A: 4– Component B: 1 (By weight)
<i>Application method:</i>	Brush – Roller – Airless Spray
<i>Thinner:</i>	Epoxy Thinner
<i>Thinner Amount:</i>	Brush (Do not thin) – Roller (0 %)- Airless spray ( 0 %)



## ***Surface Preparation:***

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000. Where necessary, remove weld spatter, and smooth weld seams and sharp edges. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

## **Abrasive Blast Cleaning**

This product must only be applied to surfaces prepared by abrasive blast cleaning to Sa2.5 (ISO 8501- 1:2007) or SSPC-SP10. For aqueous cargoes in elevated temperature service, the minimum standard of surface preparation should be abrasive blast clean to SSPC-SP5 or Sa3 (ISO 8501-1:2007). A sharp, angular surface profile of 2-3 mils (50-75 microns) is required. The preferred method of holding the blast standard is by dehumidification. Interline 994 must be applied before oxidation of the steel occurs. If oxidation does occur the entire oxidized area should be re blasted to the standard specified above. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner. Areas of breakdown, damage, weld seams etc., should be prepared to the specified standard (e.g. SSPC SP10 or Sa2½ (ISO 8501-1:2007) or power tool cleaned to SSPC SP11 or Pt3 (JSRA SPSS: 1984)).

## ***APPLICATION PROCEDURES***

This is a two-component paint. Do not mix more material than you plan to use within the listed pot life. Complete containers must be mixed at one time. **DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS OR PROPER COMPONENT RATIOS MAY NOT BE OBTAINED.** Prior to mixing, components A Base and B Hardener should be at room temperature. Combine 1 part by weight of Part B Hardener with 4 parts by weight of Part A Base. Homogenize the mixture with a power mixer. Mixed product must be used within 50 minutes (20°C) without an induction time.

## ***APPLICATION CONDITIONS***

For the best results; Air Temperature: 5°C minimum, 35°C maximum. Surface Temperature: At least 3°C above dew point, 5°C minimum and 50°C maximum. Relative Humidity: 90% maximum. Good ventilation is required during application.

## ***APPLICATION***

Stripe coat all crevices, welds and sharp angles. Apply paint at the recommended film thickness and spreading rate. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. Maximum 10-15% thickness difference between wet film and dry film is possible. Staff should wear gas masks and use ex-proof equipment when working in tanks. Maximum coating interval is 7 days. Do not apply more than 350 microns (14 mils) WFT to prevent sagging. When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas and pinholes. If necessary, cross spray at a right angle.



### ***Important Remarks:***

- It is recommended to use foil while measuring the difference between wet film thickness and dry film thickness.
- Recoating period is minimum 8-10 hours and maximum 7 days (20°C). Recoating interval depends on temperature, humidity and film thickness. If maximum recoating time is exceeded abrade surface, if the surface is highly contaminated apply pressurized fresh water cleaning before recoating.
- High temperatures decrease resistance properties of epoxy based products

### ***Shelf life & Storage:***

24 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:***

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchant ability and fitness for a particular purpose.