



# Apoxy™ NVE

## 100% Resin Rich Novolac Epoxy Protective Tanking System

### DESCRIPTION

Apoxy™ NVE a 100% resin rich novolac epoxy tank lining system, providing excellent protection to concrete or steel tanks that require protection and resistance against thermal and chemical exposure. Apoxy™ NVE is an excellent choice of protective lining for such containment tanks.

### SUITABLE USES

New and existing internal or external concrete, primed ferrous or non ferrous metal tanks.

- Portable or sea water tank, sewage & chemical tank
- Processed food tank
- Laboratory waste containment tank
- Mechanical room, chemical store, battery room
- Sump pits, drainage, inner pipe lining, etc.

### ADVANTAGES

- No solvent content and low odor
- Superior adhesion
- Excellent abrasion resistant
- Resist hydrogen sulphide gas corrosion
- Resist sulphuric acid (up to 98%)
- Resistance to organic solvents, alkalis, etc.

### SUBSTRATE REQUIREMENT

To obtain a desirable result, ensure that Apoxy™ NVE system is be applied on to a clean, sound and water tight substrate that is free of existing coating, oil, grease, soot, dirt, adhesives, laitance and any other surface contamination and defect.

### SURFACE PREPARATION (FRESH CONCRETE)

- Blast clean, scarify or grind the surface to remove laitance and expose blow hole. Fill blowhole, crack, etc. with Aquapoxy™ Screed or fillers with bond strength > 1.0 N/mm<sup>2</sup>
- Moisture within the concrete should be <12% when check with Protimeter. Right surface preparation is vital in achieving desire result.

### PRIMER & REINFORCE MESH

Apply a coat of Apoxy™ 126FS Primer, 2-component clear solvent-free epoxy sealer. Lay on the fiberglass mesh wet-on before finish with Apoxy™ NVE incorporating a surface veil.

### WORKING WITH APOXY NVE

Please read and understand Technical Data Sheet and Safety Data Sheet of each product before using them. We recommend only trained and approved applicator be engaged to install Apoxy™ NVE system.

### APPLICATION OF APOXY NVE SYSTEM

Equip with right tool and equipment before mixing any epoxy. Sample of a stirrer is shown below.

Adjust the mixer speed to 500-800 rpm. Start stirring Part A (16kg) and move MG peddler in direction opposite to MG peddler blade rotation for 1 minute to obtain a uniform and homogenous mass.



Then add Part B (4kg) slowly while the mixing continues. Blend for another 1 minute before using it.

### Sample coverage

Type of application	Min. usage
Apoxy™ 126 Primer	0.20 kg / m <sup>2</sup>
Apoxy™ NVE @ 0.5mm	0.65 kg / m <sup>2</sup>
Apoxy™ NVE @ 1.0mm	1.30 kg / m <sup>2</sup>



# Apoxy<sup>TM</sup> NVE

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### PHYSICAL PROPERTIES

Appearance	Pigment Resin (Part A) Amber Clear Activator (Part B)
Abrasion ASTM D4060	Weight loss < 0.15g/1000 cycles/ 1000g / CS-10
Adhesion at 14 days ASTM D3389-D 3002	Cross cut tester n°157
Bond strength ASTM D4541	> 2.0 N/mm <sup>2</sup> after 72hrs curing
Colour	Standard range
Compressive strength ASTM C 109:90	>80N/mm <sup>2</sup>
Flexural strength ASTM C 348:95	>60N/mm <sup>2</sup>
Tensile strength ASTM D 190:85	>50N/mm <sup>2</sup>
Dry time @ 30°C	24 hours (trafficable) Full cure at 168 hours
Pot life (A+B)	10 minutes @ 25°C
Type of resin	100% resin rich Novolac Epoxies
Viscosity	10,000 CPS ± 2,000
<u>Chemical resistant</u>	<u>Concentration</u>
H <sub>2</sub> SO <sub>4</sub>	98%
NaOH	50%
FeCl <sub>2</sub>	45%
NaOCl	15%

### CLEANING TOOL & EQUIPMENT

Use cleaning solvent A1 to clean tools

### COVERAGE

0.5mm D.F.T. requires about 650 g/m<sup>2</sup>  
1.0mm D.F.T. requires about 1,300 g/m<sup>2</sup>

### PACK SIZE

Part A 16kg can  
Part B 4kg can

### POTLIFE & SHELF LIFE

Pot life : 10 minutes after mixing  
Shelf life : 9 months in cool & sealed condition  
Do not use any mixture after 10 minutes.

### STORAGE & TRANSPORTION

Keep Epoxy<sup>TM</sup> NVE in cool and dry condition. Store in its original sealed condition.

### LIMITATIONS

- Epoxy<sup>TM</sup> NVE may not bond properly to curing compound or other coatings. Pull off test is recommended to determine suitability before actual application.
- Coverage and consumption vary depending on porosity and roughness of substrate.
- Suitable application temperature is 15°C to 45°C
- Apply or install when relative humidity is <75%

### DISCLAIMER CLAUSE

This TDS summarizes our best knowledge of this product, including how to use the product based on the information available at the time of publication. You should read this TDS carefully, consider and try out the information in the context of how the product will be used, including in conjunction with any other product, type of surfaces to, and the manner the product will be applied.

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