



## ResiGard NT

Non-Toxic Epoxy Resin Coating

**DESCRIPTION** **ResiGard NT** is a solvent free, two part, food grade epoxy tank lining and coating system.

**USES** **ResiGard NT** can be applied to steel and concrete internal tank surfaces to provide corrosion resistance, protection against oils, chemical wastewater, etc. It can also be used as waterproofing for tanks and reservoirs containing water intended for human consumption. Other areas of application include silos, wastewater treatment plants, breweries, canning and bottling units, food processing plants, etc.

**ADVANTAGES**

- Solvent free, high build, non-toxic
- Does not support algae, fungal growth
- Suitable for use in confined areas and potable water tank applications
- Excellent adhesion to concrete and steel surfaces
- Excellent resistance to seawater and solvents
- Suitable for old and new concrete surfaces
- Corrosion, chemical and abrasion resistant

### TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Component	-	Two: Part A - Base Part B - Hardener
Mixed Form	-	Liquid
Colour	-	White and Blue
Pot Life	ASTM D2471	35 mins +/- 10
Recoat Time	-	Minimum 8 hrs and Maximum 24 hrs
Full Cure	-	7 days
Bond Strength	ASTM D4541	> 1.5 N/mm <sup>2</sup>
Water Resistance	ASTM D870	Nil
Water Penetration	BS EN 12390-8	Nil
Chemical Resistance	ASTM D543	Resistant to various chemicals like mild acids, alkalis, fuels, grease, petrol, etc
Application Temperature	-	+5°C to + 40°C
Service Temperature	-	+5°C to + 70°C

**SURFACE PREPARATION** **Steel:** The base metal should be abraded and preferably shotblasted with grit. Where shot blast is impractical pre-treatment may be carried out with tap hammers, rotary wire brushes or by flame scaling. Cleaning with solvent or a strong detergent is advisable to ensure surface is free from grease, oil, paint and other contaminants. **ResiGard NT** must be applied before oxidation of the steel occurs. Surface defects revealed by the blast cleaning process, should be treated in an appropriate manner with **ReCon FCE**.



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**Concrete Surfaces:** Concrete surfaces must be dry, clean and free from mould oil, curing compound, dirt, grease, oil or excessive laitance. Surface should be prepared by suitable mechanical means to provide an open pore surface. Cracks, pinholes, potholes, etc. should be routed out and repaired with epoxy putty **ReCon FCE**. Uneven concrete should be levelled to produce a roughened flat surface. Undulated floors can be levelled / repaired using **TekniFloor SLS10** or **ResiGard RS5** prior to application of **ResiGard NT**. All internal corners should be covered with polymer modified mortar **ReCon GP** or **ResiGard ES**. Sharp edges should be rounded off. New concrete floors must be at least 28 days old prior to application. Moisture content of concrete floor must be less than 5%.

### PRIMING

Prepared surfaces should be primed with **ResiGard Primer SF**. The primer should be brushed into the surface using a stiff brush or roller and allowed to dry (minimum 12-16 hrs) before the application of **ResiGard NT**. In case of extremely porous substrate, two coats of primer is recommended. Allow the first coat to dry before applying the subsequent coat. If the surface is damp, it is preferred to use **ResiGard MB** as primer coat which cures with the moisture to form a tough membrane and will not adversely affect the top coat.

### MIXING

**ResiGard NT** is supplied in pre-measured packs. Base and hardener should be stirred separately before mixing. After stirring individually, transfer base into the mixing container, mix for a minute. Add hardener component and mix using a slow speed drill machine fitted with a paddle mixer for two minutes to get a uniform colour. Scrape the sides, edges and the bottom of the mixing container using a spatula and continue mixing for further 1 minute.

### APPLICATION

**ResiGard NT** mixed as above can be applied using a suitable squeegee, stiff nylon brush or roller. Work the material into the surface to ensure total absorption into the substrate. Finish off using a medium to long nap roller.

Make sure that the required application rates are achieved to ensure the minimum dry film thickness per coat. Spray application is also a preferred method to accurately obtain the required dry film thickness.

Minimum of two coats should be applied to achieve the desired performance. Prior to the application of each coat, the surface should be examined for signs of pinholes, cavities etc. Where pinholes are evident, these should be filled using thixotropic epoxy mortar **ReCon FCE**. The second coat should be applied at right angles to the first to get the desired dry film thickness. Second coat should be of different colour than that of the first coat.

For large water tank areas where coating is expected to undergo high pressure, it can be strengthened by using three coats of **ResiGard NT** and a Conmix E-Glass Mesh. Consult Conmix for details.

### APPLICATION THICKNESS

Minimum 400 microns wft in 2 coats for walls  
Minimum 500 microns wft in 2 coats for floors



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<b>LIMITATIONS</b>	At higher temperatures pot life will be reduced. For working in cold climates (<5°C) <b>ResiGard NT</b> containers need to be kept in a hot water bath. <b>ResiGard NT</b> cannot be applied in areas exposed to direct sunlight.	
<b>PACK SIZE</b>	4 ltr set	
<b>COVERAGE</b>	5 m <sup>2</sup> /ltr/coat at 200 microns wft Actual Coverage rates may vary according to the substrate porosity and texture, wastage factors, site and application conditions, etc.	
<b>GENERAL INFORMATION</b>	<b>Shelf Life</b>	12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature / humidity may reduce shelf life.
	<b>Cleaning</b>	Clean all equipment and tools with <b>Conmix Cleaner</b> immediately after use.
<b>HEALTH and SAFETY</b>	<b>PPE's</b>	Gloves, goggles and suitable mask must be worn.
	<b>Precautions</b>	Contact with skin, eyes etc. must be avoided. If swallowed seek medical attention immediately.
	<b>Hazard</b>	Regarded as hazardous for transportation.
	<b>Disposal</b>	Do not reuse containers. To be disposed off as per local rules and regulations.
	<b>Additional Information</b>	Refer MSDS. (Available on request)
<b>TECHNICAL SERVICE</b>	<b>CONMIX Technical Services</b> are available on request for onsite support to assist in the correct use of its products.	

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