



UltraPoxy® CN 1 iso

Productinformatie v.1.2

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PRODUCT DESCRIPTION:

UltraPoxy® CN 1 iso is a two pack special composite coating containing micro-ceramic particles and microspheres reinforcement, based on an ultra-modern Novolac-resin base, providing chemical resistance, corrosion and abrasion protection to a wide variety of substrates in extremely aggressive environments at elevated temperatures.

- External and internal coating
- Solvent-free
- Extreme isolation properties
- Excellent temperature resistance up to 170°C
- Excellent chemical resistance
- pre-qualified according to NORSOK M-501 rev. 5, system 7A - carbon steel, splash zone and system 7B - carbon steel, submerged $\leq 50^{\circ}\text{C}$ (Pre-qualifications tested according to Edition 5 of NORSOK M-501 are still valid as the coating systems also fulfil all requirements in Edition 6)

APPLICATION RANGE:

- Process vessels and tanks with extreme temperature fluctuation
- Vessels with hazardous radiation
- Storage tanks for crude oil, hydrocarbons, chemicals
- Special tanks for urea (Ad-Blue), bio oils
- Process vessels, pressure vessels of all kinds
- Pipelines for oil & gas

APPLICATION DATA:

Application methods: Airless spray pump (without filter), Ratio 1:70 or higher driven with 5-6 bar (370-420 bar working pressure). Tip size: 0.023-0.029"; Hose length max. 20m; Spray hose diameter max. $\frac{3}{4}$ "; Material must be taken up directly (without intake hose); avoid waiting time under pressure (reduction of pot life!)

Mixing ratio: 9 : 1 by weight

Mixing time: Component A: premix 4 minutes,
Components A+B: mix 2 minutes, mixer cycles >100 rpm

Pot life (20°C): 30-40 minutes (reduced at higher temperatures)

Material spray temp: Minimum 20°C

Filters: Remove filters

Thinner: Thinners should not be added. UltraPoxy® cleaners should be used to clean and flush equipment.

Number of coats: 1 or 2 coats - depending on environment.
Minimum coating thickness 500µm.
Maximum thickness per layer: 1,0 mm

TECHNICAL INFORMATION:

Colour: Light Grey, Dark Grey

Surface: Satin

Volume Solids: 100%

VOC: 0 mg

Flexibility: Excellent

Seawater resistance: > 6.000 hours seawater immersion test,
ISO 20340

Corrosion resistance: > 10.000 hours salt spray (ISO7253)

Application:

Film thickness per coat		Theoretical consumption	
Dry	Wet	kg/m ²	m ² /kg
1000 µm	1000 µm	1,19	0,84
2000 µm	2000 µm	2,38	0,42

Solvent resistance: Excellent, see resistance list

Chemical resistance: Excellent, see resistance list

Abrasion resistance: 80 mg (ASTM D 4060)

Adhesion: > 27 N/mm² (ISO 4624)

Specific Gravity (Mix): 1,19

Contact NTA Solutions BV
technical services for specific
system and application advice.



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SURFACE PREPARATION:

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

Abrasive Blast Cleaning

For best adhesion results the surfaces should be prepared by abrasive blast cleaning to minimum SA 2,5 (ISO 8501-1:2007) or SSPC-SP10. A sharp, angular surface profile of 75-100 µm is required. Contact NTA Solutions BV for further information.

The coating system must be applied before oxidation of the steel occurs. If oxidation does occur the entire oxidized area should be reblasted to the standard specified above. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.

Concrete Substrates

Refer to NTA Solutions BV for specific recommendations.

CONDITION DURING APPLICATION:

Substrate temperature should be minimum 10°C and minimum 3°C above dew point. Relative humidity should be below 85%. Temperature and relative humidity must be measured in the vicinity of the substrate.

DRYING TIME:

Substrate temperature	Fully cured	Chemically resistant	Recoat time (wet-on-wet)	
			Minimum	Maximum
20°C	48 h	7 d	10 h	24 h

STORAGE AND PACKING:

Preferred storage conditions are to keep the containers in a dry and cool area below 35°C provided with adequate ventilation. The containers should be sealed tightly.

Packing: 15 kg kits incl. hardener (13,5 kg part A + 1,5 kg part B)

Shelf life: One year. See labels for shelf life details.

QUALITY ASSURANCE AND INSPECTION:

To ensure a continuous quality of the product, the quality assurance and inspection plan of NTA Solutions BV has to be considered. Recommendations for qualified test control units are also available.

HEALTH AND SAFETY:

Observe the precautionary notices on the container label, and read the Material Safety Data Sheet before use. The product is intended for use by properly qualified professional applicators in industrial conditions. The product is flammable and should be kept away from sparks, open flames, and other sources of ignition. Smoking is prohibited in the application area. Wear suitable respiratory equipment and apply in well ventilated areas. Avoid contact with skin and eyes.

DISCLAIMER:

All technical information in this Product Data Sheet is signified as material description and based on laboratory tests and practical experiences under normal conditions. During individual use, actual measured data may vary due to circumstances beyond our control. In particular, the recommendations regarding the application and use require the proper storage and treatment of our products. Due to differences in materials, substrates and real site conditions NTA Solutions BV does not assume any warranty or liability for application results or fitness for a particular purpose, of any legal relationship whatsoever, neither from this information, nor from any given recommendations, or from any other oral advice. The user of the product must check the product's suitability for the intended application and purpose. NTA Solutions BV reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our general terms and conditions of sale and delivery. The most recent issue of the Product Data Sheet has to be considered, please ask always for the current version.