



UltraPoxy® CMOC

Productinformatie v.1.2

PRODUCT DESCRIPTION:

NTA UltraPoxy® CMOC Cartridge is a temperature and chemical high-resistant 2- pack special composite coating containing silanized high-tech micro- and nano-particle reinforcement, based on an ultra-modern hybridized epoxy-novolac-resin base providing chemical resistance, corrosion and abrasion protection **especially for use on stainless steel substrates** in extremely aggressive environments at elevated temperatures. As cartridge-kit the product is especially suitable for repairs, coating of small surfaces and areas which are difficult to access.

- Internal coating
- High abrasion resistance
- Excellent chemical resistance
- Temperature resistance up to 150°C
- Excellent adhesion on stainless steel, aluminium and zinc coated surfaces

APPLICATION RANGE:

Repairs, coating of small surfaces and areas which are difficult to access of:

- Storage tanks for crude oil, hydrocarbons, chemicals
- Special tanks for urea (Ad-Blue), bio oils
- Biogas fermenters
- Various stainless steel and aluminium applications
- Process vessels
- Pipelines for oil & gas
- Concrete substrates without use of a primer

APPLICATION DATA:

Application methods: 2-Component-Mixpack-Cartridge. Only applicable with suitable dispenser, available at NTA Solutions B.V.

Mixing ratio: 3 : 1 per volume, ready for use.

Potlife (20°C): reclosable after use, min. 6 months usable

Material application temperature: min. 20°C, max. 40°C

Number of coats: 1 or 2 coats, depending on specification. Minimum coating thickness 250µm. Maximum thickness per layer: 600µm. Please consider: **Application of the 2nd layer must be wet-on-wet!**

TECHNICAL INFORMATION:

Colour:	black	Chemical resistance:	Excellent (>9.000 h in mix of 1/3 of 98% H ₂ SO ₄ + 1/3 pure methanol + 1/3 of 3% NaCl-Solution at 50°C)
Surface:	satın	Abrasion resistance:	48 mg (ASTM D4060)
Volume Solids:	>96%	Adhesion:	Excellent on metal substrates (>40 Mpa on carbon steel)
VOC:	<50g/liter	Specific Gravity (Mix):	1,2
Flexibility:	Excellent		
Application:			

Film thickness per coat		Theoretical consumption	
Dry	Wet	kg/m ²	m ² /kg
250 µm	250 µm	0,30	3,33
600 µm	600 µm	0,72	1,38

Contact NTA Solutions 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 B.V. 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 temperat	fully cured	chemically resistant	Recoat time (wet-on-wet)	
			minimum	maximum
20°C	48 h	7 d	0.5 h	4 h
25°C	36 h	4 d	0.5 h	4 h
30°C	24 h	3 d	0.5 h	2.5 h
40°C	12 h	2 d	0.5 h	1.5 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: 1.2 kg cartridge-kit. Total volume 1000 ml with matched mixing ratio.
Shelf life: 12 months

QUALITY ASSURANCE AND INSPECTION:

To ensure a continuous quality of the product, the quality assurance and inspection plan of NTA Solutions B.V. 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 B.V. 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 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. *Status 04/2017*