

Proguard CN-OC is a temperature and chemical high-resistant 2- pack special composite coating containing silanized high-techmicro-particle reinforcement, based on an ultra-modern hybridized epoxy-novolac-resin base specifically designed for stainless steel substrates.

APPLICATION RANGE

Internal coating for

- Storage tanks for crude oil, hydrocarbons, chemicals
- Special tanks for urea, bio oils
- Process vessels
- Pipelines for oil & gas
- Biogas fermenters
- Especially for stainless steel, aluminum and zinc coated surfaces



FEATURES AND BENEFITS

- Excellent chemical resistance
- High corrosion and abrasion protection to stainless steel substrates
- Temperature resistance up to 150 °C (302 °F) (dependent on medium)
- Excellent adhesion on stainless steel
- 1-layer-system
- High-solid content

TECHNICAL INFORMATION		
Color	Anthracite	
Gloss	Satin	
Volume Solids	98 % (±1 %)	
Flexural Strength	52 MPa (7,542 psi) according to ASTM D790	
Chemical resistance	Excellent	
Abrasion resistance	49 mg (ASTM D4060)	
Adhesion	> 20 MPa (2,900 psi) on stainless steel	
Specific Gravity (Mix)	Approx. 1.3 g/cm ³	

Application by	Airless pump, gear ratio 1:68 or higher, inlet pressure > 6 bar,		
airless spraying	tip size: 0.015–0.023"; hose length max. 15 m, spray hose diameter min. 1/2"; We recommend the removal of the high-pressure filter and the direct suction of the material without use of a siphon tube.		
Application by	Recommended for small areas, repairs or to precoat edges.		
brush/roller	To obtain the required layer thickness, additional coating passes (wet-on-wet) may be necessary.		
Mixing ratio	3:1 by weight / 2.36:1 by volume		
Mixing time	Component A: Stirup intensively by mechanical means		
	Components A+B: Mix up homogeneous. Mixer speed >100 rpm		
Potlife	30 minutes at 20 °C (68 °F) / 25 minutes at 25 °C (77 °F) / 20 minutes at 30 °C (86 °F) / 15 minutes at 40 °C (104 °F		
	material temperature - waiting time under continuous pressure may reduce pot life!		
Material spray temp.	Minimum 20 °C (68 °F) recommended.		
Cleaner	Do not use thinners. We recommend to use Proguard cleaners to clean and flush equipment.		
Number of coats	One or multiple coats, depending on specification. Application of multiple layers must be wet-on-wet!		
	Minimum coating thickness 80 μm; sagging limit per layer: 200 μm at 20 °C (68 °F) material temperature.		

Theoretical consumption	Film thickness per coat: dry	Film thickness per coat: wet	kg/m²	m²/kg
Contact Chesterton International	80 μm	82 μm	0.11	9.09
techical services for specific system and				
application advice.	200 μm	204 μm	0.27	3.70

All above values are approximate and may be used as a guideline for specifications. Consumptions vary according to conditions.



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PRODUCT DATA SHEET PROGUARD CN-OC-V12 K3

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 R_t 75-100 μ m is required. Contact Chesterton International
	GmbH 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	This coating is not suitable for concrete substrates.

CONDITION DURING APPLICATION

Substrate temperature should be minimum $10 \,^{\circ}$ C ($50 \,^{\circ}$ F) and minimum $3 \,^{\circ}$ C ($37 \,^{\circ}$ F) above dew point. Relative humidity should be below 85 %. Temperature and relative humidity must be measured in the vicinity of the substrate.

CURING TIMES				
Substrate temperature	Fully cured	Chemical resistance	Recoat Airless spraying	
20 °C (68 °F)	24 hrs	7 days	only wet-on-wet!	
25 °C (77 °F)	20 hrs	4 days	only wet-on-wet!	
30 °C (86 °F)	18 hrs	3 days	only wet-on-wet!	
40 °C (104 °F)	12 hrs	2 days	only wet-on-wet!	

STORAGE AND PACKING

Preferred storage conditions are to keep the containers in a dry and cool area below 35 $^{\circ}$ C (95 $^{\circ}$ F) provided with adequate ventilation. The containers should be sealed tightly.

Packing	13.33 kg kits incl. hardener (10 kg part A + 3.33 kg part B)
Shelf life	2 years

QUALITY ASSURANCE AND INSPECTION

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

HEALTH AND SAFETY

Observe the precationary 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 Chesterton International GmbH 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. Chesterton International GmbH 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.

