

**Proguard CN 200 a.s.** is an anti-statically conductive two pack special composite coating containing mirco-ceramic particles and nano-particle 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.

## APPLICATION RANGE

- Internal coating for
- Different substrates (e.g. metals, plastics, GFK, CFK and concrete, etc.)
- Storage tanks for crude oil, hydrocarbons, chemicals
- Special tanks for urea, bio oils
- Process and pressure vessels
- Pipelines for oil and gas

## TECHNICAL INFORMATION

Color	Light Gray, Dark Gray
Gloss	Satin
Volume Solids	Approx. 100 %
VOC	Approx. 0 mg
Flexibility	Good
Chemical resistance	Excellent
Abrasion resistance	Good
Adhesion	Excellent; > 20 MPa
Leak resistor	10 <sup>4</sup> – 10 <sup>6</sup> Ω
Specific Gravity (Mix)	Approx. 1.43



## FEATURES AND BENEFITS

- High antistatic properties
- High temperature resistance
- Excellent chemical resistance

## APPLICATION DATA

Application methods	Airless spray pump (without filter), Ratio 1:68 or geater. Tip size: 0.019-0.029"; Hose length max. 50 m, Spray hose diameter max. ¾"; Material must be taken up directly (without intake hose) from bucket; avoid waiting time under pressure (reduction of pot life!)			
Mixing ratio by weight	9 : 1 -> 9 Parts A (Base) to be mixed up mechanically and to be mixed thoroughly with 1 part B (hardener)			
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 / 25 minutes at 25 °C / 20 minutes at 30 °C / 10 minutes at 40 °C material temperature - waiting time under continuous pressure may reduce pot life!			
Material spray temp	Minimum 20 °C recommended			
Thinner	Thinners should not be added. Proguard cleaners should be used to clean and flush equipment			
Filters	Remove filters – product should be sprayed without filters in pump and gun.			
Number of coats	1 or 2 coats - depending on environment. Minimum coating thickness 300 µm. Maximum thickness per layer: 500 µm			
Consumption	Film thickness per coat: dry	Film thickness per coat: wet	kg/m <sup>2</sup>	m <sup>2</sup> /kg
Contact Ceramic Polymer technical services for specific system and application advice.	300 µm	300 µm	0.43	2.33
	500 µm	500 µm	0.72	1.39

All above values are approximate and may be used as a guideline for specifications.

## 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.

<b>Abrasive Blast Cleaning</b>	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 <sub>a</sub> 75-100 µm is required. Contact Ceramic Polymer 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.
<b>Concrete Substrates</b>	Refer to Ceramic Polymer GmbH 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 (wet-in-wet)	
			Minimum	Maximum
20 °C	48 hrs.	7 days	10 hrs.	24 hrs.
25 °C	36 hrs.	4 days	9 hrs.	18 hrs.
30 °C	24 hrs.	3 days	7 hrs.	12 hrs.
40 °C	12 hrs.	2 days	5 hrs.	8 hrs.

## 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.

<b>Packing</b>	15.0 kg kits incl. hardener
<b>Shelf life</b>	2 years

## QUALITY ASSURANCE AND INSPECTION

To ensure a continuous quality of the product, the quality assurance and inspection plan of Ceramic Polymer GmbH 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 Ceramic Polymer 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. Ceramic Polymer 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.