

Product Data Sheet

PROGUARD CN-1M / -SRB

(Version 12, Hardener 4)

Coat for Every Industry!

PRODUCT DESCRIPTION:

PROGUARD CN-1M 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 to a wide variety of substrates in extremely aggressive environments at elevated temperatures.

The anti-SRB version is reinforced with a nano-cristalinic biocide providing unique protection against pitting corrosion caused and accelerated by anaerobe bacteria (sulphate reducing bacteria) in hydrocarbon storage and distribution networks. This solution is patented in Germany and major industrial countries worldwide.

APPLICATION DATA:

Application methods: Airless spray pump (without filter), Ratio 1:68 or greater. Tip size: 0.019-0.023"; Hose length max. 15m
Spray hose diameter min. 1/2"; avoid waiting time under pressure (reduction of pot life!)

Mixing (by weight): 4 Parts A (base) to be mixed up mechanically (Jiffler Mixer 'large') and to be mixed thoroughly with 1 Part B (hardener)

Mixing time: Component A – premix 4 minutes; then Components A+B – mix 2 minutes; Mixer cycles >100 rpm

Potlife (20°C): 15 minutes (reduced at higher temperatures)

Material Spray Temp: 20°C recommended

Thinner: Thinners should not be added. PROGUARD CLEANERS should be used to clean and flush equipment

Filters: Ensure that filters are removed, product to be sprayed without filters in pump and gun

TECHNICAL INFORMATION:

Colour: Anthracite
Volume Solids: 100%
VOC: 0 mg
Flexibility: Excellent
Surface: Mat
Chemical resistance: Excellent (>8.000 h in mix of 1/3 of 98% H₂ SO₄ + 1/3 pure methanol + 1/3 of 3% NaCl-Solution at 50°C)

Abrasion resistance: Excellent
Adhesion: Excellent on steel and concrete (>30 Mpa on carbon steel)

Specific Gravity (Mix): 1,2

Application range:

| Film thickness per coat | | Theoretical consumption kg/m ² |
|-------------------------|--------|---|
| Dry | Wet | |
| 100 µm | 100 µm | 0,15 |
| 200 µm | 200 µm | 0,30 |

Number of Coats: Multiple coats - depending on specification. Minimum coating thickness 100µm. Maximum thickness per layer: 350µm.

Contact CERAM-KOTE INTERNATIONAL technical services for specific system + application advice.

SURFACE PREPARATION:

First coating and repair - Gritblasting to minimum SA 2,5 (ISO 8501-1). Surface must have a course profile with minimum roughness of >50µm to 80µm

CONDITION DURING APPLICATION:

Substrate temperature **must** be above 15°C and at least 5°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/Wet) | |
|-----------------------|-------------|----------------------|-----------------------|---------|
| | | | Minimum | Maximum |
| 25°C | 48 h | 7 d | 3,5 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: 12,5 kg (10+2,5) kits including hardener
Shelf life: See labels for shelf life details.

QUALITY ASSURANCE AND INSPECTION:

To ensure a continuous quality of the products, the quality assurance and inspection plan of the material manufacturer has to be considered. Recommendations for qualified test control units are available at the material manufacturer.

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:

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we can not guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

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