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## **PRODUCT DATA SHEET: Ceram-Kote Wearshield**

**Description:** CeRam-Kote Wearshield is a technically advanced ceramic composite coating loaded with silicon carbide particles which provide excellent abrasion and corrosion protection to a wide variety of metal, fiberglass, reinforced plastic, and concrete substrates in aggressive environments. The product is solvent free; however, for ease of application, thinner is allowed to be added, especially for spray application.

**Suggested Uses:** Water / fluid pumps, Filters and valves, Cases and blade fans, wear plates, surface subject to erosion/abrasion

### **TECHNICAL DATA**

<b>Volume Solids:</b>	100%
<b>Color:</b>	Gray
<b>Mixing Ratio (A:B):</b>	2:1 by volume 2.5:1 by weight
<b>Pot Life:</b>	Approx. 30-min at 20°C.
<b>Flash Point:</b>	>110°C
<b>VOC:</b>	0 g/liter
<b>Flexibility:</b>	Good
<b>Gloss:</b>	Semi-gloss
<b>Temperature Resistance:</b>	Max. 85°C
<b>Water Resistance:</b>	Excellent
<b>Corrosion Resistance:</b>	Excellent
<b>Chemical Resistance:</b>	Very good
<b>Adhesion:</b>	Excellent: >28 N/mm <sup>2</sup> (ISO 4624)
<b>Abrasion Resistance:</b>	Excellent: 1.65 mg loss (ASTM D4060)

### **SOLVENT FREE APPLICATION**

<b>Recommended Thickness:</b>	Minimum one coat at 500 microns
<b>Application Methods:</b>	Brush or roll

### **SOLVENT ADDED APPLICATION**

<b>Recommended Thickness:</b>	Minimum two coats, each coat 250 microns.
<b>Application Methods:</b>	Airless Pump – minimum 45:1 ratio
<b>Thinning:</b>	For airless application the product should be thinned with MEK or Acetone, maximum 10%

## **SURFACE PREPARATION**

Surface must be clean, dry, and free from oil, dust, grease, and scale.

<b>Carbon Steel Surface:</b>	Grit blast to grade Sa 2-1/2 (ISO 8501-1), roughness profile 50 – 80 microns.
<b>Plastic / Fiberglass Surface:</b>	Sandpaper with no less than 100-grit sandpaper manual or mechanical tools until suitable roughness is achieved.
<b>Concrete:</b>	Brush-off blast clean / blast trac.

## **CONDITION DURING APPLICATION**

The temperature of the substrate should be at least 5°C and minimum of 3°C above the dew point. Relative humidity should be below 85%.

## **DRYING TIME AT 23°C**

Gel = 4h  
Service = 24 h  
Cured = 72 h  
Overcoating time = min 1 h, max 24 h

## **STORAGE AND PACKAGING**

Preferred storage conditions: keep the containers in a dry and cool area below 35°C that is provided with adequate ventilation. The containers should remain tightly sealed.

## **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 the 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 cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.