

# CK-9531

Coat for Every Industry!

## PRODUCT DESCRIPTION:

**CK-9531** (100% solvent free version) is a two pack ceramic composite polyurethane coating providing excellent abrasion and corrosion protection to a wide variety of metal, fibreglass, reinforced plastic, concrete substrates in aggressive environments. Ideal for external and internal steel pipeline coating.

## APPLICATION DATA:

Application methods:	strong airless ratio 75:1. Tip size: 0,021"
Mixing Ratio by weight:	3 : 1 by weight 2,5 : 1 by volume
Potlife (25°C):	30 minutes
Filters:	Check to ensure that filters are clean
Thinner:	Thinners should not be added
Application range:	CK-9531 special cleaners

Film thickness per coat		Theoretical Consumption kg /m <sup>2</sup>	Theoretical Spread m./ kg
Dry	Wet		
150µm	200 µm	0,320	3,14
300µm	400 µm	0,640	1,57

Number of Coats: One coat 0,5-1,0 mm typical

## TECHNICAL INFORMATION:

Colour:	black, grey, redbrown
Volume Solids:	100% (+/- 2%)
Flash Point:	>23°C
VOC:	0 g
Flexibility:	Excellent ~ 80% (DIN 53504)
Tension Strength:	Excellent ~ 17 N/mm <sub>2</sub> (DIN 53504)
Water resistance:	Excellent >4000 hours seawater immersion test
Corrosion resistance:	Excellent >6000 hours salt spray (ISO 7253)
Solvent resistance:	Excellent Hydrocarbons, oil, gasoline, kerosin, alcohole
Chemical resistance:	Excellent acidic solutions, alcalinic solutions
Abrasion resistance:	Excellent ~ 75 mg loss (ASTM D4060)
Adhesion:	Excellent >20 N/mm <sub>2</sub> (ISO 4624)
Specific Gravity mix:	1,25

## SURFACE PREPARATION:

Gritblasting to minimum Sa 2,5 (ISO 8501-1). Surface to have a good profile with a roughness of 50-80µm.

## CONDITION DURING APPLICATION:

The temperature of the substrate should be minimum 5°C and minimum 3°C above the dew point of the air. Relative humidity should be below 85%. Temperature and relative humidity measured in the vicinity of the substrate.

## DRYING TIME:

Substrate Temperature	Gel	Service	Fully cured	Recoat	
				Minimum	Maximum
25 °C	30 min	2 h	12 h	40 min	-

## STORAGE AND PACKING:

Preferred storage conditions are to keep the containers in a dry and cool area below 30°C provided with adequate ventilation. The containers should be sealed tightly.

Packing: 20 kg (15 kg Part A + 5 kg Part B)  
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. For the porosity test is just a wet-sponge-tester permitted. The test voltage has to be 90 V. 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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