

# CK-54 SF/LF

Coat for Every Industry!

**PRODUCT DESCRIPTION:**

**CK-54 SF/LF** is a two pack ceramic composite epoxy coating providing excellent abrasion and corrosion protection to a wide variety of metal, fibreglass, reinforced plastic, concrete substrates in aggressive environments.

**APPLICATION DATA:**

Application methods: Airless spray pump (without filter), Ratio 1:68 or greater. Tip size: 0.019-0.029"; Hose length max. 20m; Spray hose diameter max. 3/4"; Material must be taken up directly (without intake hose); avoid waiting time under pressure (reduction of pot life!)

Mixing ratio: 3 : 1 by weight  
 Mixing time: Component A – premix 4 minutes; then Components A+B – mix 2 minutes; Mixer cycles >100rpm

Potlife (23°C): 30-40 minutes (reduced at higher temperatures)

Material Spray Temp: Min. 20°C  
 Thinner: Thinners should not be added. Proguard thinners should be used to clean and flush equipment

Filters: Remove filters  
 Number of Coats: 1or 2 coats - depending on environment. Minimum coating thickness 400µm. Maximum thickness per layer: 650µm.

**TECHNICAL INFORMATION:**

Colour: RAL colours  
 Volume Solids: 100%  
 Flash Point: > 23°C  
 VOC: 0 g  
 Flexibility: > 30% (ASTM D2794)  
 Gloss: Semigloss  
 Water resistance: > 4.000 hours seawater immersion test  
 Corrosion resistance: > 10.000 hours salt spray (ISO 7253)  
 Solvent resistance: Excellent  
 Chemical resistance: Very good  
 Abrasion resistance: 60 mg loss (ASTM D4060)  
 Adhesion: > 27 N/mm<sup>2</sup> (ISO 4624)  
 Specific Gravity mix: 1,54

Application range:

Film thickness per coat		Theoretical consumption kg/m <sup>2</sup>
Dry	Wet	
500µm	500µm	0,78
1000µm	1000µm	1,54

**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:**

Substrate temperature should be above 10°C and at least 3°C above dew point. Relative humidity should be below 85%. Temperature and relative humidity must be measured in the vicinity of the substrate.

**DRYTING TIME:**

Substrate temperature	Gel	Service	Cured	Recoat	
				Minimum	Maximum
20°C	1,5 h	10 h	48 h	10 h	-

**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: 1,8 kg, 3,72 kg, 7,47 kg, 16 kg, 30 kg kits incl. 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. 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.