

PRODUCT DATA SHEET

SikaCor®-950 F

HEAVY DUTY COATING FOR STEEL AND CONCRETE

PRODUCT DESCRIPTION

Resistant two-pack coating of low solvent content based on epoxy with mineral fillers. Low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

USES

SikaCor®-950 F may only be used by experienced professionals.

Protective coating for concrete and steel, for buried and submerged structures for hydraulic engineering constructions and as internal coating for tanks and reservoirs (e.g. sewage treatment, agricultural and chemical industries, etc.). Also suitable where application onto damp concrete is inevitable.

SikaCor®-950 F can be exposed to water immediately after application. However, please take into consideration that solvents get into the water which leads to temporary contamination.

Immediate exposure to water should therefore only be considered in special cases and after consulting the authorities for the protection of environment.

Not suitable for surfaces in contact with drinking water.

CHARACTERISTICS / ADVANTAGES

After complete curing SikaCor®-950 F is:

- Tough, hard and heavy duty.
- Abrasion and impact resistant.
- Resistant to water and offers excellent resistance to most chemicals.

PRODUCT INFORMATION

Packaging	SikaCor®-950 F	35 kg and 15 kg net.
	Sika® Thinner C	25 l and 3 l
Appearance / Colour	Black, tinted red	
Shelf Life	2 years	
Storage Conditions	In originally sealed containers in a cool and dry environment.	
Density	~1.9 kg/l	
Solid Content	~75 % by volume	
	~88 % by weight	

TECHNICAL INFORMATION

Chemical Resistance	Resistant to freshwater, process water, brackish water, seawater, domestic sewage, faeces, diluted inorganic acids and lyes, neutral salts, mineral and fuel oils, grease, detergents, etc. Industrial wastewater upon request, based on wastewater analysis. Not resistant to exposure to benzene-hydrocarbons and tar oil.
Thermal Resistance	Dry heat up to approximately +100°C Warm water up to approximately +60°C NOTE: Not resistant to warm water at significant differential of temperature gradient!

APPLICATION INFORMATION

Mixing Ratio	Components A : B	
	By weight	93 : 7
	By volume	100 : 14

Consumption	Theoretical material-consumption/coverage without loss for medium dry film thickness of:	
	Dry film thickness	150 µm
	Wet film thickness	200 µm
	Consumption	0.380 kg/m ²
	Coverage	2.63 m ² /kg

Product Temperature	Minimum +10°C
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Relative Air Humidity	Max. 85 %, except the surface temperature is significantly higher than the dew point temperature, it shall be at least 3 K above dew point. Under unfavourable conditions, e.g. influence of high air humidity into the fresh coating, surface damages and possibly little alligatoring may occur. However, this will not affect the quality.
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Pot Life	At +20°C	~90 minutes
	At +30°C	~45 minutes

Waiting Time / Overcoating	Waiting time between operations up to maximum 150 µm dry film thickness:		
		Minimum Waiting Time	Maximum Waiting Time
	At +10°C	30 hours	72 hours
	At +15°C	24 hours	60 hours
	At +20°C	12 hours	48 hours
	At +25°C	8 hours	36 hours
	At +30°C	6 hours	24 hours

NOTE: If these maximum waiting times cannot be observed, the surface must be activated by sweep blasting to avoid intercoat adhesion problems. Prior to application of the next coat, a thorough de-dusting / cleaning is necessary.

Thinner	Use Sika® Thinner S; only thin material where stated. If necessary, a maximum of 5% Sika® Thinner S may be added to adapt the viscosity. In this case, an immediate exposure to water is not possible.
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Drying time	Drying Time at +20°C: Dry to touch after ~4 hours, dry to handle after ~12 hours.
	Final Drying Time: At +20°C and good ventilation, final curing is achieved after approximately 7 days.

Curing also takes place at lower temperatures (i.e. below +10°C), but takes longer.

Surface temperature	Minimum +10°C
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SYSTEM INFORMATION

Systems

Concrete:

2 to 3 x SikaCor®-950 F

1st coat to be thinned with maximum 5 % by weight Sika® Thinner S.

2nd coat unthinned.

Steel:

2 to 3 x SikaCor®-950 F

Preferably alternating colour shades (to show wear and indicate when re-application is required).

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data. Further notes and information data sheets on product safety and disposal can be found on the Internet at www.sika.de.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete:

Shall be solid in nature with a gripping surface, free of cement laitance, dust, loose and friable particles and other contamination. Concrete moisture content to be maximum 6%. Sweep blasting increases adhesion. This is particularly important in the case of underwater exposure.

MIXING

Stir component A thoroughly using an electric mixer (start slowly, then increase up to approximately 300 rpm). Add component B carefully and mix both components thoroughly (including sides and bottom of the container). Mix for at least 3 minutes until a homogeneous mixture is achieved. Fill mixed material into a clean container and mix again as described above. During mixing and handling of the materials, always wear protective goggles/glasses/faceshield, suitable gloves and other necessary personal protective equipment.

APPLICATION

The method of application has a major impact on achieving uniform thickness and appearance. Spray application will obtain the best results. The indicated dry film thickness is easily achieved by airless spray. Adding solvents reduces the sag resistance and the dry film thickness. In case of application by roller or brush, additional applications may become necessary to achieve the required coating thickness, depending on type of construction, site conditions, colour shade, etc. Prior to major coating operations, a test application on site may be useful to ensure the selected application method will provide the requested results.

Airless-spraying:

- Efficient airless equipment
- Pressure minimum 180 bar
- Remove sieves
- Nozzle size ≥ 0.38 mm (≥ 0.015 inch)
- Spraying angle approximately 50°
- Diameter of hoses minimum 10 mm ($\frac{3}{8}$ inch)
- Temperature of material minimum +15°C

CLEANING OF TOOLS

Use Sika® Thinner C. Hardened / cured product can only be mechanically removed.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika 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 current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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Product Data Sheet

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