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BUILDING TRUST
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PRODUCT DATA SHEET

SikaCor® Steel Protect VHS Rapid

Future name: Kem Kromik® Steel Protect VHS Rapid

Low-solvent, 1-pack coating for corrosion protection based on synthetic resin

DESCRIPTION

SikaCor® Steel Protect VHS Rapid is a versatile primer and topcoat for steel.
Low solvent content according to Protective Coatings Directive of German Paint Industry Association (VdL-RL 04).

USES

SikaCor® Steel Protect VHS Rapid may only be used by experienced professionals.

Coloured, fast curing corrosion protection coating for steel constructions containing corrosion protection pigments.
Particularly suited for workshop application.

CHARACTERISTICS / ADVANTAGES

- Very fast initial drying and through drying, even at low temperatures
- Applicable as 1-coat-system in a dry film thickness range of 80 - 160 µm
- VOC content approx. 320 g/l
- Economical

PRODUCT INFORMATION

Packaging	SikaCor® Steel Protect VHS Rapid	250 kg und 30 kg net.
	Sika® Thinner S	25 l, 10 l and 3 l
	SikaCor® Cleaner	160 l and 25 l
Appearance and colour	RAL-colour shades Slight colour deviations are possible due to raw material characteristics.	
Shelf life	2 years	
Storage conditions	In originally sealed containers in a cool and dry environment.	
Density	~1.55 kg/l	
Solid content	~65 % by volume ~81 % by weight	

TECHNICAL INFORMATION

Chemical resistance	The coating system is resistant to weathering.
Temperature resistance	Dry heat up to max. + 100°C

SYSTEM INFORMATION

System

Steel:
Exposure to atmosphere:
1 - 2 x SikaCor® Steel Protect VHS Rapid
SikaCor® Steel Protect VHS Rapid can be overcoated with 1-pack coatings based on synthetic resins e.g. SikaCor®-6630 High Solid or Sika® CorroTop NEW.
The products are **not** suitable for submerged surfaces.

APPLICATION INFORMATION

Thinner

Sika® Thinner S
If necessary max. 3 % Sika® Thinner S (stir slowly) may be added to adapt the viscosity.

Consumption

Theoretical material-consumption/VOC without loss for medium dry film thickness:

Dry film thickness	80 µm
Wet film thickness	120 µm
Consumption	~0.190 kg/m²
VOC	~36.2 g/m²

Material temperature

Min. + 5°C

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.

Surface temperature

Min. + 5°C

Drying stage 6

Drying stage 1 (Touch dry)

	DFT 80 µm	DFT 120 µm	DFT 160 µm	(ISO 9117-5)
+ 5°C after	80 min	100 min	160 min	
+ 20°C after	40 min	50 min	80 min	
+ 40°C after	15 min	20 min	30 min	
+ 80°C after	5 min	7 min	10 min	

Drying stage 6 (Overcoatable)

	DFT 80 µm	DFT 120 µm	DFT 160 µm	(ISO 9117-5)
+ 5°C after	8 h	10 h	12 h	
+ 20°C after	4 h	4.5 h	5 h	
+ 40°C after	1.5 h	2 h	3 h	
+ 80°C after	45 min	1 h	1.5 h	

Waiting time to overcoating

SikaCor® Steel Protect VHS Rapid can be overcoated with itself after drying stage 6 is achieved.

Drying time

Final drying time
Depending on layer thickness and temperature, final hardness is achieved within 7 - 14 days.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Steel:
Blast cleaning to Sa 2 ½ according to ISO 12944-4.
Free from dirt, oil and grease.

MIXING

SikaCor® Steel Protect VHS Rapid is supplied ready for use; stir thoroughly prior to application.

APPLICATION

The method of application has a major effect on achieving uniform thickness and appearance. Spray application will give 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.

By brush and roller

Conventional high pressure spraying:
- Nozzle size 1.5 - 2.0 mm

Airless-spraying:
- Pressure min. 180 bar
- Nozzle size 0.38 - 0.53 mm (0.015 - 0.021 inch)
- Spraying angle 40° - 80°

CLEANING OF EQUIPMENT

SikaCor® Cleaner

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommend-dations relating to the application and end-use of Sherwin-Williams` products, are given in good faith based on Sherwin-Williams` current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sherwin-Williams` 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. Sherwin-Williams 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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