



KEM-KROMIK™ CORROTOP (EG)

1-PACK SYNTHETIC RESIN TOPCOAT

Revised 07/2023 Issue 1

PRODUCT DESCRIPTION

An aesthetically attractive 1-pack topcoat, easy to apply and with a smooth, glossy finish

- Quick-drying
- Stackable
- Excellent adhesion even on hard PVC, timber, old coatings, primed galvanized surfaces and aluminium

RECOMMENDED USE

Can be used as corrosion protection coating and colour design for steel or prime coated hot-dip galvanized steel constructions, e.g. warehouse structures, machine parts, wall and ceiling cladding, doors, railings, for indoor and outdoor.

PRODUCT TECHNICAL DATA

Volume Solids:	50 ± 2% (MIO), ~56 ± 2% (MIO-free) (ISO 3233-3)
Weight Solids:	69 ± 2% (MIO), ~73 ± 2% (MIO-free)
VOC:	351 g/l (MIO-free), 403 g/l (MIO) determined practically in accordance with Protective Coatings Directive of German Paint Industry Association (VdL-RL 04). 357 g/l (MIO-free), 409 g/l (MIO) calculated from formulation to satisfy EC Solvent Emissions Directive. 274 g/kg (MIO-free), 314 g/kg (MIO) calculated from formulation to satisfy EC Solvent Emissions Directive (UK).
Colours:	RAL and MIO (EG) colour shades. Slight colour deviations are possible due to raw material characteristics.
Flash Point:	34°C.
Cleaner/Thinner:	Thinner B (for cleaning). Thinner B for thinning with max. 3% to adapt the viscosity. Thinning will affect VOC compliance, sag tolerance and dry film thicknesses.
Pack Size:	Single component material: 12.5 kg (9.6 litre). Volume will vary with colours and density.
Density:	1.3 kg/l (may vary with colours).
Shelf Life:	1 year from date of manufacture, stored in originally sealed containers in a cool and dry environment.

Recommended Application Methods:
Airless Spray, Conventional Spray, Brush and Roller

Typical Thickness:

Recommended Spreading Rate Per Coat		
MIO-free	Typical	Maximum Sag
Dry	60 µm	120 µm
Wet	107 µm	214 µm
Theoretical Consumption*	0.139 kg/m ² 0.107 l/m ²	
Theoretical Coverage*	7.18 m ² /kg 9.33 m ² /l	
MIO	Typical	Maximum Sag
Dry	60 µm	120 µm
Wet	120 µm	240 µm
Theoretical Consumption*	0.156 kg/m ² 0.120 l/m ²	
Theoretical Coverage*	6.41 m ² /kg 8.33 m ² /l	

* This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.

Film thickness will vary depending on actual use and specification.

Apart from small areas the dry film thickness of Kem-Kromik™ CorroTop should not exceed 120 µm per coat.



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AVERAGE DRYING TIMES

For 80 µm Dry Film Thickness:

	+ 5°C	+ 23°C
Dry to handle (Drying Stage 6*)	21 hours	10 hours
To Recoat	24 hours	12 hours

*ISO 9117

Maximum recoat time is 6 months. Prior to further applications all contamination must be removed. In the case of extended recoating times consult Sherwin Williams customer service.

Final cure: 1 week, depending on film thickness and temperature.

These figures are given as a guide only. Factors such as air movement, film thickness and humidity must also be considered.

SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.

For contaminated and weathered surfaces e.g. primed areas we recommend to clean with Cleaner Wash.

Steel surfaces shall be blast-cleaned to Sa 2½ according to ISO 8501-1 (ISO 12944-4).

Hot-dip galvanized surfaces, copper, aluminium, hard PVC shall be prepared by degreasing.

Maintenance coatings: In case of well adhering old coating systems, careful cleaning is sufficient. Loose particles must be removed, corroded and defective areas must be prepared to PSa 2½, PMa or PSt 2 and patch-primed with Kem-Kromik™ CorroTop or Kem-Kromik™ Aktivprimer Rapid.

MIXING

The material is supplied ready for use; stir thoroughly with a mechanical paint mixer prior to application.

During mixing and handling of the materials always wear protective goggles, suitable gloves and other protective clothings.

APPLICATION CONDITIONS

Substrate temperature shall be above + 5°C and at least 3°C above the dew point.

Material temperature shall be above + 5°C.

Relative air humidity shall be below 85%.

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for satisfactory application characteristics. Always purge spray equipment before use with listed cleaner. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Airless Spray

Tip Size: 0.38 – 0.53 mm (0.015 – 0.021 inch)

Fan Angle: 40° - 80°

Operating Pressure: min. 180 bar (2600 psi)

The airless spray details given above are intended as a guide only.

Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen. However, the operating pressure should be the lowest possible consistent satisfactory atomisation.

As conditions will vary from job to job, it is the applicators responsibility to ensure that the equipment in use has been set up to give the best results.

If in doubt consult Sherwin-Williams customer service.

Conventional Spray

Atomising Pressure: 3 - 5 bar (43 - 72 psi)

Tip Size: 1.5 – 2.0 mm (0.06 – 0.08 inch)

Brush and Roller

Brush and roller application is suitable.



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RECOMMENDED SYSTEMS

Steel, blast-cleaned to Sa 2½

1-2 x Kem-Kromik™ CorroTop / CorroTop EG

or

1 x Kem-Kromik™ Aktivprimer Rapid resp. Kem-Kromik™ Steel Protect VHS Rapid

1 x Kem-Kromik™ CorroTop / CorroTop EG

Steel, manually prepared

2 x Kem-Kromik™ CorroTop / CorroTop EG

Aluminium, copper and hot-dip galvanized surfaces

1 x Kem-Kromik™ 6630 High Solid or Kem-Kromik™ Aktivprimer Rapid*

1-2 x Kem-Kromik™ CorroTop / CorroTop EG

* For Kem-Kromik™ Aktivprimer Rapid sweep-blasting is recommended for galvanized surfaces

Old coatings, hard PVC and timber

2 x Kem-Kromik™ CorroTop / CorroTop EG

Maintenance coating on steel

Touch up with Kem-Kromik™ CorroTop / CorroTop EG or Kem-Kromik™ Aktivprimer Rapid

1-2 x Kem-Kromik™ CorroTop / CorroTop EG

To ensure adhesion, a trial application is recommended.

Kem-Kromik™ CorroTop and Kem-Kromik™ CorroTop EG are also overcoatable with other 1-pack synthetic-resin coatings.

ADDITIONAL NOTES

Drying times, curing times and pot life should be considered as a guide only.

The product is not suitable for underwater exposure and permanent condensation.

When applying light and brilliant colours of Kem-Kromik™ CorroTop multiple coats may be required to full opacity.

Brilliant colours have the tendency to lighten under strong UV-exposure.

Temperature resistance:

Dry heat up to + 100°C.

In case of higher temperatures consult Sherwin-Williams customer service.

Numerical values quoted for physical data may vary slightly from batch to batch.

HEALTH & SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

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