Chemcolor corrosion protection system

Grundkolor

One-component, fast-drying alkyd primer

Intended use

GRUNDKOLOR is used as a primer for equipment, vehicle superstructures, metal structures, agricultural machinery manufacture and other applications. At a dry film thickness of 30-40 microns, it is used as a corrosion-protection coating beneath fire-protection coatings. In a system with a suitable finishing coat, it is suitable for exposure to rural, urban and mild industrial atmospheres.

Properties Areas of application

- long-term active anticorrosion protection of metals
- excellent adhesion to metal substrates
- very quick-drying
- good adhesion between coats
- air and forced drying
- short intermediate coat interval
- very good primer in a system of AC protection
- at 30-40 µm dry film thickness, an anticorrosive primer beneath fire-protective coatings

Technical data*

Packaging		0,75L / 5, 10, 25 kg		
Application temperature		3°C above the dew point		
Application humidity		Minimum 30 and maximum 85% relative air humidity		
Thinning		SHOP PRIMER THINNER, NITRO THINNER		
Drying time	Temperature [°C]	10 °C	20 °C	30 °C
(dust dry / touch dry)	Time [min]	15 / 25	5 / 10	8 / 16
Accelerated drying	Flash-off	10 minutes		
	Conditions	approx. 80°C - 30 minutes		
Recoating interval	Minimum	10 minutes		
22°C; alkyd finishing coat	Maximum	Unlimited		
Recommended film thickness	Wet	approx. 120 microns		
	Dry	60 microns		
Theoretical coverage	40 µm dft	11.5 m2/L 8.1 m2/kg		
Shades		white, beige, oxide red, grey, green		
Gloss		mat		
Solids content	By weight By volume	68 ± 2% 47 ± 2%		
Density		1,43 g/ml		
Viscosity	ISO 2431	90 s F6 (20°C)		
Adhesion		ISO: 0 / ASTM: 5B		
VOC content		IIA(i), 500 g/l (2010); product contains: max. 500 g/l		

(*All technical data stated in this technical data sheet are based on laboratory tests. Actual data may vary depending on application conditions beyond our control. dft-dry film thickness)

Surface preparation

Good practice

The surface must be dry, clean and free of dirt, grease, rust, slag residues, salts, or other contaminants that could prevent good adhesion. Welds, repaired areas, joints and surface damage identified during surface preparation must be properly cleaned and treated before painting.

Surfaces that have oxidized after preparation and before painting must be treated in accordance with the appropriate standard. Consult the specified standards. For further advice, contact Chemcolor technical service.

Metals

Before preparing the surface for painting, clean it with solvents to remove contaminants such as oil, grease, salts, dirt and markings. Use manual cleaning to ISO 8501-1 St 2 or power-tool cleaning to ISO St 3 to remove corrosion and prepare the surface in accordance with the standard. Highly exposed surfaces or surfaces intended for immersion must be prepared using the ISO 8504-2 method or blast-cleaned to ISO 8501-1 SA 2.5. After cleaning, the surface must be clean with a roughness of 25 to 50 microns.

Refurbishment of old coatings

Prepare the surface by solvent cleaning to remove contaminants. Use manual cleaning to ISO 8501-1 St 2 or power-tool cleaning to ISO St 3 to remove corrosion and poorly adhering paint and prepare the surface in accordance with the standard. Overlap the edges of sound, well-adhering paint by 5-10 cm with the new paint or primer. Abrade glossy surfaces to provide a profile for adhesion. Apply a test area to verify compatibility between the old and new coatings.

Application conditions

The substrate temperature must be at least 3°C above the dew point during application.

Temperature: 5° - 30°C

This temperature applies to the air, surface and material. The surface must be visibly dry.

Relative air humidity: 30% - 85%

Material preparation and application

GRUNDKOLOR can be applied by brush, roller, airless or conventional air spray. Stir thoroughly before application.

In opened pails, cover the paint with thinner, seal tightly and use within a short time.

Brush/roller

Brush: Natural fibres

Roller: Natural or synthetic fibre cover

Thinning: 5% Shop primer or Nitro thinner 5010

Airless

Pressure: 170-200 Bar

Nozzle: .013-.021

Thinning: 5-15% Shop primer or Nitro thinner 5010

Air spray

Air cap: 1.3 - 2.2 mm

Air pressure: 3.1 - 5.1 bar

Thinning: 10-15% Shop primer or Nitro thinner 5010

Brush or roller application is suitable for small areas and local repairs. Compared with spraying, brush application requires more coats to achieve the specified dry film thickness. Thinning depends on the application conditions and paint temperature.

Cleaning

Shop primer or Nitro thinner. If the specified thinners are unavailable, use MEK, MIBK, xylene, a 50:50 mixture of xylene and MEK or MIBK, or acetone for cleaning only.

Coating systems

We recommend the one-component, fast-drying alkyd enamel STARKOLOR as a topcoat over GRUNDKOLOR.

Cleaning tools and surfaces

Clean tools and equipment immediately after use with Shop primer thinner, acetone or Nitro thinner, or mechanically.

Storage

The shelf life of the product in tightly closed, undamaged original packaging, stored in a dry place at temperatures between +5°C and +25°C, is 12 months from the date of manufacture.

Notes

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Chemcolor's liability for any claim, including negligence or strict liability for loss or damage arising from work performed, related to or resulting from the use of the products, shall in no case exceed the purchase price of the products or the portion of the products giving rise to the claim. Chemcolor shall in no case be liable for consequential or incidental damage.

Protective measures:

- Forced ventilation must be provided when applying the product in enclosed, unventilated spaces. The material must not be applied near open flames or welding operations.
- Wear protective equipment during work, including gloves, safety glasses and other necessary protection.
- Before eating and after work, change contaminated clothing and wash your hands.
- Observe the safety warnings on the packaging label.

Important warnings:

- Dispose of uncured or unbound material in accordance with applicable regulations. Fully cured material may be disposed of at municipal landfills in accordance with applicable regulations.
- Detailed safety precautions and physical, toxicological and ecological information for the product are provided in the safety data sheet, available from the Chemcolor sales department or at www.chemcolor.si.

This information is based on our experience to date and careful research. Site conditions and knowledge of the work influence the quality of application. Successful work depends on professional assessment of the substrate at handover and practical experience in selecting the appropriate product. Please also follow the manufacturer's recommendations and the safety data sheet for this product.