Chemcolor corrosion protection system

Vinilakril emajl

One-component vinyl acrylic topcoat for metal

Intended use

VINILAKRIL EMAJL is a finishing paint for exterior metal surfaces. It is used to protect metal facades and metal structures, as an aesthetic and protective coating for galvanized surfaces and aluminium, and for exterior surfaces of silos and tanks...

In a system with a suitable anticorrosive coating, it is suitable for exposure to rural, urban and mildly industrial atmospheres.

Properties Areas of application

- high mechanical, chemical and weather resistance
- maximum UV resistance
- resistance to SO2
- good hiding power
- durability and elasticity of coating film
- excellent adhesion to non-ferrous metals
- aesthetic, protective enamel for galvanised sheet and aluminium
- can be combined with various primers
- can be applied with brush, roller or spray application

Technical data*

Packaging		1-25 kg or L		
Application temperature		3°C above the dew point		
Application humidity		Minimum 30 and maximum 85% relative air humidity		
Thinning		VINILKOLOR THINNER		
Drying time	Temperature [°C]	10 °C	20 °C	30 °C
(dust dry / touch dry)	Time [min]	15 / 30	10 / 20	5 / 15
Recoating interval	Minimum	16 h		
22°C;	Maximum	Unlimited		
Recommended film thickness	Wet	approx. 140 microns		
	Dry	60 microns		
Theoretical coverage1	40 µm dft	11.50 – 13.00 m2/L		
Shades		RAL or NCS		
Gloss		Semi-matt, mat		
Solids content1	By weight By volume	50 - 58 ± 2% 35 - 45 ± 2%		
Density1		1.00 – 1.25 g/ml		
Viscosity1		thixotropic		
Adhesion		ISO: 0 / ASTM: 5B		
VOC content1		IIA(i), 500 g/l (2010); product contains: max. 495 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, 1-value depends on shade)

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. Observe the recoating intervals of the primers used.

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 coating, solvent-clean it to remove contaminants such as oil, grease, salts, dirt and markings. Use hand cleaning to ISO 8501-1 St 2 or power-tool cleaning to St 3 to prepare the surface to the standard. Mechanically roughen new, freshly galvanised surfaces to improve adhesion. 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 25-50 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

VINILAKRIL EMAJL 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% Vinilkolor thinner

Airless

Pressure: 120-150 Bar

Nozzle: 0.28 – 0.33 mm

Thinning: 5-15% Vinilkolor thinner

Air spray

Air cap: 1.3 - 2.0 mm

Air pressure: 3.1 - 5.1 bar

Thinning: 10-15% Vinilkolor thinner

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

Vinilkolor thinner 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

VINILAKRIL EMAJL can be used as a finishing coat in systems with the following primers:

Epoxykolor primer CH500 Grundkolor Primokolor Agro primer Shop primer

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.

For semi-matt and matt versions, apply only 60 microns of wet film (30 microns dry) to prevent the matting agent from sinking.

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.