

Application Instructions / Technical Data Sheet

CAIRCON - Metal protection paint 4in1

CAIRCON Metal protection paint is a satin-gloss, solvent-based paint for metals such as steel, iron, aluminium and zinc in indoor and outdoor areas. Thanks to active anti-corrosion pigments and high-quality resins, it provides long-lasting protection and effectively prevents rust. This paint acts as rust protection, primer, intermediate coat and topcoat in one (4in1 effect).

Check the colour shade for accuracy by applying a test coat BEFORE use - no complaints/exchanges are possible after application. On continuous surfaces, use only colour shades from the same delivery or with an identical batch number. For repairs within a surface, material/tools of the same consistency and batch number must also be used.

Step 1. Substrate Preparation

1. **General:** Remove loose existing coatings and rust. Sand and prime if required. Mask surfaces not to be painted. The substrate must be dry, clean, sound, free of grease and free from contamination and bond-breaking substances such as algae, moss, resins, waxes, oils, etc. For thorough preliminary cleaning, we recommend using **our CAIRCON - Special Degreaser**. It reliably removes grease, oil and other contamination to improve paint adhesion. Resinous areas and particularly stubborn soiling must be thoroughly removed **with CAIRCON - Universal Thinner** before coating.

2. **Iron and steel:** Mechanically remove rust, mill scale, scale and welding residues until a metallic-bright surface is visible. Sharp edges and burrs should also be rounded.

3. **Zinc:** Zinc surfaces should be carefully prepared with a special zinc cleaner as substrate pretreatment. Sharp edges and burrs should also be rounded.

4. **Aluminium:** Clean the surface with nitro universal thinner, then sand with a nylon abrasive pad and finally clean again with nitro universal thinner until no grey residues remain on the cloth.

Step 2. Application

1. **Application methods:** The material can be applied by brush or roller. For convenient, even application, we recommend using a **CAIRCON Floor Roller**. Always work wet-on-wet for a uniform appearance. When rolling, apply the material evenly (observe the specified consumption) and back-roll in a cross pattern. Stir well before use.

Important: Before painting larger areas, always prepare a test area first and check adhesion and the required colour shade when dry.

2. **Multi-coat application:** To avoid texture defects, the topcoat should not subsequently be worked further. The coating should form a continuous, homogeneous paint layer without voids or defects. Only this can ensure reliable and long-lasting rust protection. Do not use on surfaces coated with synthetic resin paint. The paint can be applied by brush or roller. Always work wet-on-wet to avoid lap marks.

If products from third-party manufacturers are used for substrate preparation, their compatibility and a satisfactory final result must be verified by preparing a test area BEFORE coating. No liability can be accepted for proper application results when third-party products are used.

Thinning

CAIRCON - Universal Thinner is used to adjust the application viscosity of solvent-based coating materials. Depending on the product and required consistency, the recommended addition is **between**

5% and 10%. Thinning is recommended particularly for spray-gun application and for the first coat applied by roller or brush.

Cleaning Tools

Clean tools thoroughly with CAIRCON - **Universal Thinner** immediately after application. Dried residues can be softened by soaking in thinner and then removed.

Drying Times

Please note: These times apply only at an optimum air temperature of 20-25°C and humidity of 40-60% and may be significantly extended at lower temperatures or higher humidity.

dust-dry	recoatable	fully cured
4 hours	12 hours	14 days (do not overcoat the surface during this period due to wrinkling)

Technical Data

Gloss Level	satin gloss
Composition	Alkyd resin, solvents, fillers, pigments, additives
Consumption	approx. 5-8m ² /litre per coat (two coats recommended)
Areas of Application	Metal in outdoor and indoor areas
Application	with roller, brush or spray equipment
Application Temperature	also at low temperatures from +5°C, ideal 15-23°C
Shelf Life	Approx. 24 months when unopened containers are properly stored at +5°C to +25°C. Protect from frost and moisture.

Disposal

Only send containers emptied of residues for recycling.

Recommended Additional Products

Cleaning & Thinning	CAIRCON - Special Degreaser, CAIRCON - Universal Thinner
Tools	CAIRCON - Floor Roller, CAIRCON - Brush Set
Similar Products	CAIRCON - Metal protection paint 4in1 Matt , CAIRCON - Metal Paint

Warning and Safety Information

Hazard pictograms:



GHS07
Exclamation mark



GHS02
Flame

Signal word: Danger

Hazard statements for physical hazards:

H225 Highly flammable liquid and vapour.

Hazard statements for health hazards:

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards:

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements - Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area.

Precautionary statements - Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements - Disposal:

P501 Dispose of contents/container through an appropriate recycling or waste disposal facility.