TDS_48
METAL CRYL PAINT

TECHNICAL DATA SHEET
akteonpaints.com

Metal Cryl Paint_TDS_48_2025_v1.0_EN

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TECHNICAL DATA SHEET

METAL CRYL PAINT

Single component, solvent-based, pure acrylic metal coating

Main Features:

1. Single-component for easy handling and application.
2. Solvent-based formula ensures fast drying and strong substrate bonding.
3. Contains anticorrosive pigments for rust inhibition.
4. Suitable for direct-to-metal applications.
5. Good gloss and color retention in outdoor conditions.
6. Flexible and crack-resistant over dynamic metal surfaces.
7. Can be applied by brush, roller, or spray.

Applications:

1. Metal railings and gates.
2. Structural steel in urban or mild industrial environments.
3. Storage tanks and silos (above ground).
4. Metal roofs and cladding.
5. Agricultural and construction machinery.
6. HVAC ducts and outdoor units.
7. Maintenance coating for corroded or aged metal.
8. Street furniture and poles.
9. Automotive accessories (trailers, toolboxes, etc.).

Technical Specifications & Typical Values

Binder Type	Acrylic
Colour	Available in bases: P, D & TR for tinting in any shade by using color-tinting machines and clear (varnish) state.
Diluent	Nitro Thinner
Density at 22°C (ISO 2811)	1.20 Kg/L
Solids %w/w	~ 55% *
VOC (2004/42/EC)	482 g/L – (A/i/SB) One-pack performance coatings - VOC compliant
Dry film thickness (2 coats) (ASTM D6132-13(2017))	12 ± 13.5 µm**
Hardness by Instrumented indentation (ISO 14577)	180 MPa
Chemical resistance (ASTM D1308 – 20)	1h – ultra thick bleach – no deterioration detected

*depending on the tinting base

**depending on surface absorption, tinting base & application method

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Technical Specifications & Typical Values

Method	Paint brush, roller, or spray gun
Coverage per coat	8-10 sqm/L**
Recoatability	24 h
Shelf life	12-24 months
Touch Dry Time at 22°C	20-30 min
Dry Through Time at 22°C	24 h
Ambient air temperature	min. +10°C / max. +40°C Expect considerable decrease in working times when temperature exceeds +35°C. (Might need to use extra nitro thinner) Consider the difference between substrate's temperature and ambient air temperature.
Relative air humidity	20 % min. / 55-60 % max.
Dew point	Substrate's temperature must be at least 3°C above the dew point to reduce the risk of condensation.
Substrate moisture content	< 8 % pbw - Oven-dry-method.
Curing time	Note: Times are approximate and will be affected by changing ambient and substrate conditions, particularly temperature and relative humidity.
Foot traffic	~ 6-24 h ****
Light mechanical loading	3-5 days
Fully serviceable	7-12 days ****

*Depending on the tinting base

**Depending on surface absorption, tinting base & application method

***Drying times are temperature, humidity, and film thickness dependent

****For the purposes of this technical data sheet, "foot traffic" refers exclusively to light foot traffic, meaning stepping or walking without dragging, rolling, or moving heavy objects. This does not include activities that may exert excessive pressure or cause mechanical damage to the coating during its polymerization process of 7-12 days. To prevent potential damage, avoid placing or moving furniture, equipment, or other heavy items on the surface until the coating has fully cured as specified in the curing guidelines.

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METAL CRYL PAINT preparation:

Substrate quality & preparation:

1. The substrate must be cured, solid, clean, dry and free of all contaminants such as dust, dirt, oil, grease, surface treatments, etc.
2. Surface defects such as cracks, blow holes, and voids must be fully exposed and repaired.
3. Uneven substrate should be leveled to produce a roughened flat surface.

METAL CRYL PAINT preparation:

In the case of spray gun application, dilute with 20% nitro thinner.

Apply 2 layers with 24h intervals:

- Apply the first layer diluted with 10 % nitro thinner for substrate stabilization.
- After 24h apply the second layer diluted with 10% nitro thinner.

Important application remarks:

1. Untreated substrate defects could lead to reflective coating defects and reduced performance.
2. Substrate washing is not allowed before the application of solvent-based coatings.
3. The substrate's moisture should be less than 8% to avoid coating adhesion failure and film defects. To assure suitable substrate moisture, the ambient temperature must be 22°C for at least 12 days. Higher substrate moisture could result in a lack of coating adhesion and/or blooming.
4. Tool cleaning right after use with nitro thinner and soap, always following the local HSE rules.

Packaging:

Metal can of **0.75-L** / **2.5-L** / **10-L** / **17-L**

Storage:

Shelf life: 12-24 months from the date of production, in original unopened packaging in a cool and dry condition between +5°C and +35°C. Protect from direct sunlight, heat, temperature extremes, and moisture. Failure to comply with the recommended storage conditions may result in premature deterioration of the product packaging and which may cause inconsistent workability, finish and cure times of the material.

Health, Safety & Environment:

Read the product label carefully before use. The Technical Data Sheet should be read in conjunction with the Safety Data Sheet.

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Paint System

Contact Akteon Paints for case-by-case recommendations at: **contact@akteonpaints.com** or visit **www.akteonpaints.com**

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