



ENAMEL

Material Safety Data Sheet (MSDS)

PRODUCT CODE	1200	MSDS / TDS NO.	MT12
PRODUCT CLASS	Interior and exterior coatings	PREPARATION DATE	August 2024

01 IDENTIFICATION OF THE COMPANY

Manufacturer	Chemical Coatings s.a.r.l.
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C.A.S. number	Mixture

02 EMERGENCY CONTACTS

PRIMARY EMERGENCY CONTACT	MANUFACTURER CONTACT
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03 COATING SYSTEM IDENTIFICATION

System name	Enamel anti-rust primer and synthetic topcoat system
Base technology	Synthetic Soya alkyd coating system for prepared steel surfaces

Synthetic topcoat. The synthetic Enamel topcoat is the finishing layer of the system. It provides the final colour, gloss, opacity and weather-resistant finish over a compatible anti-rust primer. Iron oxide has no fixed minimum in the supplied topcoat MSDS because pigment content varies by colour; some colours may contain little or no iron oxide.

Anti-rust primer. The primer is intended as the first coating over properly prepared ferrous steel. According to the manufacturer, it contains a substantially higher red iron-oxide pigment loading of **15-20% by weight**. This stated range should be confirmed in the manufacturer's formal primer SDS before regulatory or contractual use.



04 PRODUCT DESCRIPTION AND COMPOSITION

Synthetic topcoat - manufacturer-supplied composition

COMPONENT	CAS NO.	WT.%
Alkyd Resin	68333-62-0	40-50
Titanium Dioxide	13463-67-7	10-30
White Spirit	64742-82-1	10-30
Siccatol	6107-56-8	5-10
Methyl Ethyl Ketoxime	96-29-7	1-5

Anti-rust primer - manufacturer-advised iron-oxide range

PRIMER COMPONENT	CAS NO.	WT.%	BASIS
Red iron oxide / Pigment Red 101	1309-37-1	15-20	Manufacturer-advised; formal primer SDS pending

Enamel provides a durable yet flexible film with high resistance to climatic conditions. The high concentration of Titanium (chloride type) provides good opacity and a smooth spread surface without sags, runs or chalking, allowing easy application.

Industry context: official commercial red-oxide primer SDSs show that Pigment Red 101 content varies materially by formulation. The stated 15-20% range is technically plausible and lies within the 10-25% range reported for a heavily pigmented Rust-Oleum alkyd red primer, but it remains specific to this product only when formally confirmed by Chemical Coatings s.a.r.l.



05 RECOMMENDED USES

Enamel is recommended as a protective and decorative finish for properly prepared steel surfaces, including steel structures, steel fences, gates and railings, industrial machinery and equipment, doors, above-water steel surfaces on boats, and external surfaces of industrial tanks.

06 LIMITATION

Do not place this product in direct contact with chemical materials or apply it inside fuel or petrol tanks. Do not use it for permanent immersion, below-waterline service, or internal tank lining unless the application has been specifically approved in writing by the manufacturer.

07 SURFACE PREPARATION

Unpainted steel	Completely eliminate non-adherent mill-scale and rust with a steel brush or, where possible, by sand blasting. Degrease with thinner or a waterless degreasing agent.
Galvanized surfaces	Apply a wash primer (zinc chromate) first to obtain a smoothly prepared surface.
Pre-painted steel or metal	Remove all non-adherent coating. Touch up bare spots with Anti-rust primer, then apply an Undercoat. Abrade with sandpaper before finishing with an Enamel coat.

08 APPLICATION INFORMATION

Recommended application equipment: roller with a rubber cover.

Air spray	Add 20-25% thinner. Nozzle: 1.8-2 mm.
Airless gun	Add 8-12% thinner. Nozzle: 0.013 inch.
Pressure	12 MPa (= 120 at)
Brush	Use a soft, long brush.
Cleaning	Clean tools properly with thinner or cleaning solvent before drying.



09 TECHNICAL DATA

Generic type	Soya alkyd synthetic resinous
Solids by volume	37% (+/- 2%)
Solids by weight	66% (+/- 6%, depending on tints)
Specific gravity	D. 1.200 (white)
Viscosity	Ford Cup No. 4 (20 C): 150 seconds
Finish	High gloss with excellent filling and opacity properties. Flat and matt finish available.
Coverage	40-60 m2 per U.S. gallon, depending on substrate smoothness and absorption
Cure conditions	67.97 F / 20 C at 65% relative humidity
Dry to touch	Approx. 2 hours
Dry to recoat	Approx. 8 hours
Dry to handle	Approx. 24 hours

10 COLOURS

All colours are available upon request.

11 ADDITIONAL INFORMATION

Shelf life	48 months for unopened and unstirred packaging.
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DOCUMENT CONTROL

This system document combines the manufacturer-supplied synthetic Enamel topcoat information with a manufacturer-advised 15-20% red iron-oxide range for the anti-rust primer. A separate manufacturer-issued primer SDS remains required to confirm the complete primer composition, hazards and CAS ranges before regulatory or contractual use.