

Martelelex

TECHNICAL DATA SHEET



Description of the product

MARTELEX is an enamel paint based on alkyd silicon resins. It is ideal for painting metal constructions where a **hammer finish effect** is required. It provides **anticorrosive** protection on the surface, excellent adhesion, elasticity, and hardness.

Recommended uses

It is used for decorating appliances, machinery and metal surfaces in general.

Technical characteristics

Resin: Modified alkyd resin

Density: 0.99±0.03 gr/ml, depending on the shade (EN ISO 2811.01, 20°C)

Density MARTELEX ART 2160: 1.20±0.03 gr/ml (EN ISO 2811.01, 20°C)

Storage Viscosity: 105±25 sec (DIN 53211/4 mm, 20°C)

Solids b.w.: 50.5±4.5%, depending on the shade (EN ISO 3251)

Solids b.w. MARTELEX ART 2160: 65.5±2% (EN ISO 3251)

Solids b.v.: 40±4%, depending on the shade (ISO 3233)

Solids b.v. MARTELEX ART 2160: 49.5±2% (ISO 3233)

Flash point: 21±3°C (EN ISO 1523)

VOC (Volatile Organic Compounds): **MARTELEX** belongs to the category A/i SB (One-pack performance coatings). EU Limit Value: 500 g/l. The ready to use product contains max. 499 g/l.

Shades

Available in 15 ready made shades.

Properties

Adhesion (Cross Cut on metal): 2-3 (EN ISO 2409)

Adhesion (Cross Cut with REDOX, GRIDOX as primers): 2-3 (EN ISO 2409)

Impact test: In/out 8±2/0-2 inch/pound (ASTM D 2794)

Sag Resistance: 175±25 µm (ASTM D 4400)

Bend test (Mandrel): 6-8 mm OK (EN ISO 1519)

Bend test (Mandrel) MARTELEX ART 2160: 5-6 mm OK (EN ISO 1519)

Resistance to salt spray

2 coats **MARTELEX** / 95±5 µm: Very good protection for at least 400 hours (EN ISO 9227)

1 coat **REDOX** + 1 coat **MARTELEX** / 95±5 µm: Excellent protection for at least 400 hours

Spreading rate

Dry film thickness per coat: 50±5 µm.

Spreading rate: Approx. 8.5±1 m²/Lt, for complete hiding. **MARTELEX ART 2160** has a spreading rate of 10±1 m²/Lt, for complete hiding.

Application instructions

Surfaces should be cleaned from oil, dust, rust, moisture, etc. For absolute anticorrosive protection it is advised to apply 1 coat of anticorrosive primer (**REDOX, GRIDOX**). **MARTELEX** is applied in 1 or 2 coats. **Do not stir intensively**. The hammer effect of the surface depends on the pressure of the spray gun, the distance from the surface to be painted and the «opening of the fan».

Application method: Spray.

Diluent: CHROTEX SPRAY SOLVENT.

Thinning: No thinning is necessary. If however thinning is required dilute up to 5% v/v. **MARTELEX ART 2160** can be diluted up to 20% v/v.

Tools are cleaned immediately after the application with solvent, soap and water.

Drying time

Dry to touch: 20±5 minutes (ASTM D 1640).

Dry through: 4½±½ hours.

MARTELEX ART 2160 dries in approx. 10 hours.

Recoating time: After at least 24 hours.

Drying and recoating time may be prolonged under conditions of low temperature and high relative humidity.

Coating system

Surfaces can be primed with alkyd based anticorrosive primers, such as **REDOX, GRIDOX** etc.

Other systems may be applied, depending on the application.

Packaging

All shades are available in 0.75 Lt cans. **MARTELEX 2133** is also available in 2.5 Lt cans.

Storage

1 year, provided the cans remain closed and in normal storing conditions.

Health and safety

Please refer to the labeling mentioned on the can. In case more information is needed refer to the Material Safety Data Sheet.

Notes

- **MARTELEX** is **not** recommended for exterior use, due to limited resistance to light and UV radiation.
- The appearance of a surface painted with **MARTELEX 2160** is different than the one painted with the other **MARTELEX**.

*Issued: November 2020
This issue replaces all others*

