

KIRON

MICA-FINISH ANTICORROSIVE ENAMEL

series 277

DESCRIPTION

KIRON is an anticorrosive enamel with a base of synthetic resins, anticorrosive pigments and laminar extenders, which enables metalwork to be protected against corrosion. KIRON has a passivating effect thanks to the action of anticorrosive pigments which hinder the formation of rust. Its special formulation means it provides:

- A passivating effect: the anticorrosive pigments in the product perform a passivating action, preventing the formation of rust.

- A barrier effect: the special laminar structure creates parallel layers of extenders inside the film which prevent water from being absorbed and provide outdoor resistance.

- A shield effect: the micaceous iron oxide and aluminium in the product prevent ultraviolet radiation from reaching the layers underneath, delaying the deterioration of the binder.

Owing to its special properties and aesthetic finish, KIRON is suitable as a primer and topcoat for application on exposed ferrous articles even in damp environments and in industrial or marine environmental conditions.

To improve scratch strength it is possible to recoat with DECORFILM OPACO 3740238, UNIMARC FINITURA LEGNO s. 318 or UNIMARC FINITURA CERATA clear 3120300.

INSTRUCTIONS FOR USE

The product can be applied on ferrous metals: Ferrous metalwork and steel alloys such as gates, railings, metal window frames, etc.. Suitably treated galvanized surfaces and light alloys.

TECHNICAL SPECIFICATIONS

- Nature of the binder: modified alkyd resin
- Pigments and extenders: micaceous iron oxide, aluminium and zinc phosphate
- Solvent: mix of aliphatic hydrocarbons
- Specific gravity per UNI EN ISO 2811-1: 1.38 ± 1.50 kg/l.
- Viscosity when tinned UNI 8902: 3000-6000 cps at 25 °C (Brookfield rotational viscometer)
- Drying time (at 25 °C and 65% R.H.): dust free in 30 min; to touch in 4 hours; to recoat after 12 hours

PREPARING THE SURFACE

Ferrous metalwork never previously painted:
- Remove any compact and adherent calamine and all traces of rust by means of commercial-type sandblasting (Grade SA2), or clean mechanically or manually.
- Dust the surface, make sure it is completely dry and apply KIRON.

- In the case of new surfaces which do not feature calamine or rust, simply remove any grease from the surface using cleaning thinner.

Painted ferrous metalwork:

- Remove any layers of old flaking paint and any rust by means of mechanical or manual cleaning, rub down in order to coarsen any old paint which is still perfectly adherent.

- Remove dust from the surface.
- Apply KIRON on perfectly dry surfaces.
- In the case of considerably deteriorated surfaces, it is advisable to remove any old paint and rust completely by means of grade SA2 1/2 sandblasting, or using the SVERNICIATORE SM10 paint remover cod. 5610014 followed by careful mechanical or manual cleaning.
- Any surfaces sandblasted down to reveal the original shine of the metal must receive their base coat of KIRON after no more than 8 hours.
- On particularly rusty surfaces, or surfaces exposed to heavy industrial environmental conditions, it is advisable to apply an undercoat using a rust inhibiting paint SATURNO series 191 or PRIMER code 1630307.

Galvanized surfaces, aluminium and light alloys:

- Remove all traces of oxide by means of mechanical or manual cleaning.
- Carefully remove any grease using suitable alkaline solutions or thinner.
- Remove all traces of dust and proceed with the application of a coat of PRIMER all-purpose anticorrosive primer cod. 1630307 on a perfectly dry surface.
- 12 hours after the previous operation, paint with KIRON.

APPLICATION INSTRUCTIONS

Air and surface conditions:

Air temperature: Min. +5 C / Max. +35 C.

Relative humidity of the air: <80%.

Temperature of the surface: Min. +5 C / Max. +35 C.

Humidity of the surface: <10% R.H..

- Avoid applying the product when there is condensation on the surface, or in direct sunlight.
- Tools: brush, roller, spray gun, airless.
- Stir the product thoroughly before thinning.
- Thinner: with White spirit 5200010 or Synthetic thinner 5210011;
- Thinning: by brush and roller at 0-3%; by spraying at 8%.
- When airless spraying, adjust thinning (max. 8%) according to the type of unit and nozzle used.
- Tools should be cleaned immediately after use using White spirit 5200010 or Synthetic Thinner 5210011.
- N. coats: 1-2
- In order to assure the utmost anticorrosive protection, 2 coats of product must be applied in order to reach a total thickness when dry of at least 70 microns.
- Indicative spreading rate: 4-5 sq m/l based on 2 coats, corresponding to a thickness of 70 microns.

TINTING

The product is available in fine and coarse grain sizes, in the shades featured on the colour chart, and can be tinted using the Marcromie tinting system.

In the event different batches of coloured product are employed, or if a product produced with the tinting system is used to complete a piece of work, it is recommended that the various products be intermixed in order to avoid slight differences in colour.

KIRON

MICA-FINISH ANTICORROSIVE ENAMEL

series 277

STORAGE

Maximum temperature for storage stability: +30 °C

Minimum temperature for storage stability: +5 °C

The product should be preferably used within 3 years from date of manufacture when stored in original unopened containers and in appropriate temperature conditions.

SAFETY RULES

Limit value EU (Dir. 2004/42/EC)

Cat. A/i: One-pack performance coatings (solvent-base):
500 g/l (2010)

KIRON contains max: 500 g/l VOC

Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. The product must be transported, used and stored in accordance with the standards in force regarding hygiene and safety; after use, do not litter, let residues dry out completely and treat them as special waste. Consult the safety data sheet for additional information.

SPECIFICATION ITEM

Applications, on previously prepared surfaces, of KIRON Mica-finish anticorrosive enamel series 277 - with a base of modified alkyd resins, micaceous iron oxide, aluminium and anticorrosive pigments -with at least 2 coats for a minimum consumption of 200 ml/sq m.

Supply and application of the material €. per sq m.

SAN MARCO GROUP guarantees that the information herein is provided to the best of its technical and scientific knowledge and based on its experience; nonetheless, the company may not be held liable for the results obtained using these products, as application conditions are beyond its control. It is recommended to always make sure that the product is suited to each specific instance. The present sheet voids and replaces any previously existing sheets. For further technical information call the technical service +39 041 4569322.