

Technical Datasheet

High Temperature Enamel

Prod.Code: 05899 Enamels



DESCRIPTION

A solvent-based enamel paint made from fine pigments and heat resistant silicone compound resins and pigmented acrylic resin depending on color choice.

USE: INTERIOR - EXTERIOR

General purpose enamel finish for interior or exterior exposure on many types of substrates. Heat-resistant enamels are indicated for the protection of primed metal surfaces, subject to temperatures of up to 200°C in moderately aggressive marine or industrial environments.

After application, a forced drying process should be carried out at temperatures of 200°C for 30 minutes. In practice on large or permanent installations the, the curing of the paint can be carried out under operation. Important to maintain a slow and steady temperature increase reaching the 200°C under controlled conditions.

PROPERTIES

- Resistant for temperatures up to 200°C.
- Leaves a smooth and gloss finish.
- Excellent coverage and opacity.

Finish: Gloss

Colour: RAL colours (made to order)

Mixture viscosity: Min. 50" S/FR1002

Mixture density: 1,15 ± 0,10 S/FR1001 gr/cc, depending on colour

Drying: Touch dry 30 minutes

Minimum repaint time: 24 hours

Curing: 200°C for 30 minutes

Diluent: D-17 Solvent

Performance: 13 m²/l (for 30 microns)

Solids in volume: 40% Theoretical, depending on colour.

Mixture Flash Point: Inflammable to 28°C

Relative Humidity Max.80%

VOC Content: Max. 500 g/l

05899 RAL COLOURS



Format: 4L / 15 L

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SURFACE PREPARATION

IRON & UNTREATED STEEL. Abrasive blasting to grade SA 2 ½ according to ISO 8501-1, leaving a roughness profile between 20-50 µ. Peeled paint coatings, rolling scale, rust and foreign matter must be removed. Any trace of remaining contamination should be shown only as small spots with a circular shape or stripes. Subsequently prime with a primer resistant to the suitable temperature protection level.

PRIMED STEEL & IRON. Remove any loose and flaking paint by mechanical means such as wire brush, scraper, etc. Subsequently, manually degrease the surface eliminating salts and other contaminants with fresh water at high pressure. Shot blasting to Sa 2½ standard is recommended. Subsequently apply an appropriate primer.

APPLICATION TIPS

Stir the paint until complete homogenization.
Apply on clean, completely dry surfaces, free of efflorescence (saltpeter) and mould.
Dilute the product depending on the porosity and condition of the substrate.

AMBIENT CONDITIONS. Do not apply on to surfaces below 5°C, nor on to excessively hot surfaces. Surface temperature must be minimum 3 °C above the dew point. Relative humidity should not exceed 80%. Do not apply when risk of rain or wind is imminent.

APPLICATION METHOD

- BRUSH: Apply straight as is, making sure coats are applied with thin coats using long well-stretched brush strokes. If necessary product can be diluted using **D-17**.
- ROLLER : Due to its quick drying nature this paint is not recommended to apply with paint rollers.
- PNEUMATIC SPRAYERS:
 - Tip Size 1,0 - 1,4 mm.
 - Air pressure: 3,1 - 4,2 Kg/cm²
 - Dilution between 5 and 15%.
- AIRLESS SPRAYING
 - Tip Size: 0,38 - 0,48 mm.
 - Pressure: 140 - 170 Kg/cm²
 - Dilution between 0 - 5%.

The exact determination of the dilution percentage will depend on the temperature, gun pressure, type of nozzle, etc. Pay special attention not to spray dry; The deposited layer must be moist otherwise anchoring problems may occur. It is not advisable to paint in rainy weather or during warm ambient temperatures.

CLEANING. Immediately clean stains and work tools after use with **D-17 Thinner (Prod.Code. 50.004)**

REFINISHING

Use the same product.

SAFETY & ENVIRONMENT

As this is a solvent based product, it must be applied with good air circulation and with the necessary protection measures. Avoid sources of ignition. Minimize product waste by estimating the correct amount needed, taking into account the m², porosity and texture of the surface. Store any excess material (unmixed) in a ventilated and dry place. The container must be clean and of adequate size for the amount of product left over. Close containers carefully and keep upright to avoid spills. Preserve the containers of frost, high temperatures and direct exposure to the sun. Keep any unused product for later use to reduce environmental effects. Do not eat, drink or smoke during the preparation and application of the product. Surface preparation and application operations must be carried out with the corresponding safety measures. For more information, consult the Safety Data Sheet. In case of contact with eyes wash with clean and abundant water. Keep out of the reach of children. Do not discharge into drains or the environment. Dispose of at an authorized waste collection point. Consult your local city council about the correct recycling of both the container and waste and leftovers of paint according to law and principles of environmental respect.