

TECHNICAL DATA SHEET

Date of issue: 26/07/2011

Last updating: N°3 31/03/2015



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Name: SILICONE ENAMEL 600°C

Definition: Silicone top coat 600°C

Code: 45.4

Category:

V.O.C. ready to use: 670 g/l

Product outside the uses referred to
2004/42/CE

NATURE OF THE PRODUCT

Product based on a modified silicone resin with capability to resist until 600°C

GENERAL USES

Boilers, fireplaces, stainless steel surfaces subjected to high temperatures¹

APPLICATION METHOD

PREPARATION OF SURFACES

The cleaning of the application surface should be total and painstaking and it is a fundamental and necessary condition to obtain positive result of the painting cycle.

This means that presence of grease and oils on the surfaces, is absolutely not allowed.

Sand blast grade SA 2.1/2, or accurate scratching with total elimination of oxide traces, oil and calamine, followed by degreasing with thinners.

PREPARATION OF THE PRODUCT

Carefully mix until an even colour and consistency are obtained. For airless applications no dilution is requested or maximum, for standard airmix application dilute with our 07.005 or 07.002 or 07.010 in a percent of 10%.

APPLICATION

Spray gun: nozzles of 1,4-1,6 mm. diameter and 3-5 atm. pressure.

Airless. nozzle 0,09 inches, 120-150 bar

Brush/roller Only for small surfaces

TECHNICAL DATA

PRODUCT TYPE: Monocomponent

APPEARANCE (ASTM D 523): Matt (<30 gloss).

COLOURS: Metallic gray, black (45.4.90550), anthracite (the binder 45.4.K1 has to be used in 90/10 ratio with the aluminium tinters of the tintometric system and eventually even in blend with 45.4.90550 black, to formulate different grades of anthracite)

SPECIFIC WEIGHT (ISO 2811): 1.15 ± 0.05 kg/l

SUPPLY VISCOSITY (DIN 53211): 8" ± 2" Ford 8

:

SOLID ON VOLUME: 37 % (± 2%)

¹ When the product is lead to its working temperature for the first time and the maximum temperature is reached too quickly, you obtain a film not homogeneous and poorly resistant. For this reason is always suggested the pre-polymerization process.

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SOLIDS CONTENT: 40 % (± 2%)

DRYING AT 20°C - Dust dry: 20-30' - Touch dry: 30'
- Pre-polymerization : 30' at 180°C

**RECOMMENDED
COATS:** One crossed coat

THICKNESS²: 15-30µm

THEORETIC YIELD³: 10 m²/kg

ADHESION (ASTM D 3359): B=5 on surfaces treated like above reported

REPAINTING: Within 4 hours with the same product

**STORAGE
STABILITY:** One year, stored in closed packs, in a cool, dry place, away from any sources of heat.

² Considering a dry film.

³ The theoretical yield has been calculated for the thickness suggested and over plane and regular surfaces.