

TECHNICAL DATA SHEET

Date of issue: 21.03.2001

Last updating: n°4 26.04.2021



Name:	SIROXAN R, GLOSSY	Category:	Top coat
Definition:	Quick air drying enamel	V.O.C. ready to use:	540 g/l
Code:	74.1	Product outside the uses referred to 2004/42/CE	

NATURE OF THE PRODUCT

Synthetic top coat based on alkyd quick air drying resins.

GENERAL USES

Steel structural works, steel products, agricultural machines, silos, etc.

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.

- Ferrous surfaces. Carefully remove all traces of rust, calamine, oil and humidity, by SA2 1/2 sandblasting or very careful mechanical cleaning, followed by degreasing using aqueous solutions of surfactants or organic thinners. Apply a primer coat, like our Sirnox N 79.2 or 79.4. When the primer is completely dry, apply the Siroxan top coat. The product has direct adhesion properties on iron as well.
- Galvanized sheet. Accurate sanding by using Scotch Brite coarse grain, followed by careful degreasing using thinners. Recommended primers: Acrydur 69.3, Epofix 29.3, Basic 2 69.4, Monodur 49.9.
- Aluminium. Chromate or phosphorous chromate treatment or delicate sanding followed by degreasing using organic thinners. Recommended primers: Acrydur 69.3, Epofix 29.3. Basic 2 69.4, Monodur 49.9.

PREPARATION OF THE PRODUCT

Carefully mix until an even colour and consistency are obtained. Dilute with our synthetic thinner 07.005 or nitro thinner 07.001 at maximum 15% to reach a viscosity of 20-24" Ford 4 at 20° C.

APPLICATION

Spray gun: nozzles of 1,4-1,7 mm diameter and 3-5 atm pressure.
Airless: nozzle 0,09 inches, 180-240 bar pressure, without dilution
Roller or brush¹: Only for large surfaces

TECHNICAL DATA

PRODUCT TYPE:	One pack product
FILM APPEARANCE (ASTM D 523):	Gloss, 90±3 gloss
COLOURS:	On request (by using the binder 74.1.K2 at 80/20 ratio with the tinters of the solvent base tinting system)
SPECIFIC WEIGHT (ISO 2811):	1,00 (± 0,08) g/cm ³ ready to use
SUPPLY VISCOSITY (DIN 53211):	15" Ford 8 at 25°C (± 3")
SOLID ON VOLUME:	50% (±3%)

¹ You may need Antifoam additive 03.009 in order to avoid bubble formation whilst using these tools.

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SOLIDS CONTENT: 50% ($\pm 2\%$)

DRYING AT 20°C

- Dust dry: 20-30 minutes
- Touch dry: 3-6 hours
- Total hardening : 24-36 hours
- Forced drying 30 minutes at 60°C
- Maximum chemical resistance: After 14 days

RECOMMENDED COATS: One crossed coat

RECOMMENDED THICKNESS: 40-50 μm

THEORETIC YIELD: 10-12 m^2/kg

SALT SPRAY TEST (ASTM B 117): On cycle with primer 79.2 and topcoat with a final dry thickness of 100 μm , 800-1000 hours

IMPACT TEST (ASTM D 2794): 36kg direct, 10 kg inverse

ADHESION (ASTM D 3359): B=5, excellent on surfaces prepared like above specified

YELLOWING (ASTM D 4587): $\Delta E < 8$ after 500 hours, with gloss reduction

CHEM. RESIST. ² (UNI EN ISO 12720):

Hydrochloric acid-HCl solut. 10%	vote 4	7 days
Nitric acid-HNO ₃ solut. 10%	vote 1	7 days
Sulfuric acid-H ₂ SO ₄ solut. 10%	vote 4	7 days
Acetic acid solut. 10%	vote 4-3	7 days
Mix of NaCl 10%, Lactic acid 5%	vote 4	7 days
Synthetic sweat	vote 5	7 days
Hydrogen peroxide 35%	vote 1	7 days
Ammonia solut. 30%	vote 4	7 days
Sodium hydroxide solut. 10%	vote 1	7 days
Acetone	vote 4-3	7 days
Cyclohexanone	vote 1	7 days
Solesso 100	vote 5-4	7 days
Ethyl acetate	vote 4	7 days
Ethanol	vote 4-3	7 days
Synthetic oil	vote 4	7 days
Idraulic oil	vote 5	7 days
Transmission oil SAE 30	vote 5-4	7 days
Engine oil 15W40	vote 5	7 days

² The quality of chemical resistance goes from a value of 5 (means optimum) to 1 (means not good). For further information please contact Siro's technical service.

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Code: 74.1

Category: Top coat

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Product outside the uses referred to 2004/42/CE

REPAINTING: After 24 hours wet on wet or after 4 weeks of complete hardening, prior sanding.

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