

# TECHNICAL DATA SHEET

Date of issue: 05/02/2013

Last updating:



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|                    |                            |                                             |                   |
|--------------------|----------------------------|---------------------------------------------|-------------------|
| <b>Name:</b>       | <b>CLEAR GLOSSY SIROID</b> | <b>Category:</b>                            | <b>topcoat</b>    |
| <b>Definition:</b> | <b>Nitroacrylic enamel</b> | <b>V.O.C. ready to use:</b>                 | <b>820 g/l</b>    |
| <b>Code:</b>       | <b>41.1.00008</b>          | <b>Product outside the uses referred to</b> | <b>2004/42/CE</b> |

## NATURE OF THE PRODUCT

One-pack glossy enamel based on nitroacrylic resins

## GENERAL USES

Product for general use, specific for metal protection of light alloys, copper, brass, nickel, 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. This means that presence of grease and oils on the surfaces, is absolutely not allowed.

Remove all traces of grease, rust, moisture, fingerprints and polishes by degreasing with organic solvents

## PREPARATION OF THE PRODUCT

Carefully mix until an even consistency is obtained. For standard airmix application dilute with our nitro thinner 07.001 in a percent of 40-60% to obtain a viscosity of 14"±2" Ford 4 .

## APPLICATION<sup>1</sup>

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

Brush/roller Only for small surfaces

## TECHNICAL DATA

**PRODUCT TYPE:** One pack product.

**APPEARANCE<sup>2</sup> (ASTM D 523):** glossy (88±5 gloss).

**COLOURS:** Transparent

**SPECIFIC WEIGHT (ISO 2811):** 0.95 ± 0.05 kg/l

**SUPPLY VISCOSITY(DIN 53211) :** 60" ± 10" Ford 4

**SOLID ON VOLUME:** 16 % (± 2%)

**SOLIDS CONTENT:** 16 % (± 2%)

|                       |                     |          |                              |                |
|-----------------------|---------------------|----------|------------------------------|----------------|
| <b>DRYING AT 20°C</b> | - Dust dry:         | 15-20'   | - Touch dry:                 | 40'            |
|                       | - Total hardening : | 24 hours | - Forced drying <sup>3</sup> | 20-30' at 80°C |

<sup>1</sup> Minimum temperature for the application: + 10°C.

<sup>2</sup> With an high level of humidity and low air ventilation, the film can do a thin white layer. To prevent this is useful to add a 2-4% of thinner 07.020 inside the product before application.

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|                                                        |                                                                                       |               |
|--------------------------------------------------------|---------------------------------------------------------------------------------------|---------------|
|                                                        | - Maximum chemical resistance:                                                        | After 7 days  |
| <b>RECOMMENDED COATS:</b>                              | One or two                                                                            |               |
| <b>THICKNESS <sup>4</sup>:</b>                         | 15-25µm                                                                               |               |
| <b>THEORETIC YIELD <sup>5</sup>:</b>                   | 13 m <sup>2</sup> /kg                                                                 |               |
| <b>IMPACT TEST (ASTM D 2794):</b>                      | 20 kg direct and reverse                                                              |               |
| <b>ADHESION (ASTM D 3359):</b>                         | B= 5 on surfaces treated like above reported.                                         |               |
| <b>CHEM. RESIST . <sup>6</sup> (UNI EN ISO 12720):</b> |                                                                                       |               |
|                                                        | Hydrochloric acid-HCl solut. 10%                                                      | vote 3 3 days |
|                                                        | Acetic acid solut. 10%                                                                | vote 5 3 days |
|                                                        | Mix of NaCl 10%, Lactic acid 5%                                                       | vote 5 3 days |
| <b>REPAINTING <sup>7</sup>:</b>                        | The product can be repainted after 1-2 hours with himself.                            |               |
| <b>STORAGE STABILITY:</b>                              | One year stored in closed packs, in a cool, dry place, away from any sources of heat. |               |

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<sup>3</sup> Baking the product can produce the popping effect, to avoid this is better a flash-off time of 30'-60' before put the paint to dry in the oven

<sup>4</sup> Considering a dry film.

<sup>5</sup> The theoretical yield has been calculated for the thickness suggested and over plane and regular surfaces.

<sup>6</sup> 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.

<sup>7</sup> The solvent must be completely flash-off from the film. Preliminary tests are necessary.