

TECHNICAL DATA SHEET

Date of issue: 20/04/2015

Last updating:n.2 08/07/2021



Name:	CLEAR 99 UHS-420 FAST	Category:	Topcoat
Definition:	Air-drying UHS acrylic clear	V.O.C. limit:	420 g/l
Code:	61.1.X99	V.O.C. ready to use:	420 g/l
Product according to 2004/42/CE			

NATURE OF THE PRODUCT

Topcoat based on hydroxylated acrylic resin and aliphatic isocyanates with very high solid content. Excellent resistance to weathering and hydrocarbons. Exceptional transparency and very light colour. It can be easily applied both for touching up and for total repainting. It can be polished after one hour of drying at room temperature.

GENERAL USES

Car refinishing and industrial bodywork.

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. SA2 grade sandblasting. Alternatively, perfect mechanical cleaning of the support by sanding with elimination of rust, calamine and subsequent cleaning by degreasing with aqueous solutions of surfactants or solvents.
- Galvanized sheet. Delicate sanding with coarse-grained scotch brite followed by degreasing using solvents.
- Aluminium. mechanical cleaning by sanding, followed by degreasing with solvents.

Then proceed with the application of the BASIC 2 primer (69.4.70133 or 69.4.70266), and the base coat (47.5 series).

PREPARATION OF THE PRODUCT

	Code	Name	By weight	By volume
Component A	61.1.X99	Clear 60 UHS-420 FAST	100 parts	100 parts
Component B	01.H5T	Acryrex UHS EXTRA	50 parts	50 parts
As an alternative	01.H100	Acryrex UHS EXTRA FAST	50 parts	50 parts

Mix carefully until uniform consistency. The product can be undiluted or diluted by a maximum of 10% with thinner 07.060 (for temperatures >25°C we suggest using thinner 07.094).

With hardener 01.H100, the product can be polished after 15 minutes of air drying and 15 minutes of IR lamp at 80°C.

APPLICATION

Spray gun: nozzles of 1.2-1.5 mm diameter and 3-5 atm pressure.

Roller or brush¹: Only for small surfaces

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

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TECHNICAL DATA

PRODUCT TYPE: Two-pack

FILM APPEARANCE (ASTM D 523): Gloss, >95 gloss

COLOURS: transparent

SPECIFIC WEIGHT (ISO 2811): $0,99 \pm 0,02$ kg/l (A + B)

SUPPLY VISCOSITY (DIN 53211): 30 ± 2 " Ford 4 a 25° C (A + B)

SOLID ON VOLUME: $58 \pm 1\%$ (A + B)

SOLIDS CONTENT: $57 \pm 0,5\%$ (A + B)

DRYING AT 20°C

- Dust dry: 15-25 minutes
- Touch dry: 40-45 minutes
- polish: 1 hour
- Total hardening : 12 hours
- Forced drying 15 minutes at 60°C or 15 minutes IR at 80°C
- Maximum chemical resistance: After 7 days

RECOMMENDED COATS: One and a half coat

THICKNESS ²: 60/70 µm

THEORETIC YIELD ³: 10 m²/kg

POT-LIFE AT 20° C: 45 min. At higher temperature the pot-life significantly decreases

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

YELLOWING (ASTM D 4587): $\Delta E < 5$ after 3000 hours

CHEM. RESIST. ⁴ (UNI EN ISO 12720):

Hydrochloric acid-HCl solut. 10%	vote	5	7 days
Nitric acid-HNO ₃ solut. 10%	vote	3	7 days
Sulfuric acid-H ₂ SO ₄ solut. 10%	vote	5	7 days
Acetic acid solut. 10%	vote	3	7 days
Mix of NaCl 10%, Lactic acid 5%	vote	5	7 days
Synthetic sweat	vote	5	7 days

² Considering a dry film.

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

⁴ 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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Hydrogen peroxide 35%	vote	3-2	7 days
Ammonia solut. 30%	vote	5	7 days
Sodium hydroxide solut. 10%	vote	5	7 days
Cyclohexanone	vote	1	7 days
Solvesso 100	vote	5	7 days
Synthetic oil	vote	5	7 days
Idraulic oil	vote	5	7 days
Transmission oil SAE 30	vote	5	7 days
Cutting oil	vote	5	7 days
Unleaded gasoline	vote	5	7 days

REPAINTING: Wet on wet with itself. As an alternative, after complete hardening, we recommend a slight sanding before overcoating.

STORAGE STABILITY: One year for A component, 6 months for B component in closed packs, in a cool, dry place, away from any sources of heat.