TECHNICAL DATA SHEET

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Date of issue: *19/05/2010*

Last updating: no.5 *06/06/2022*

Name:	**CLEAR MS SCRATCH RESISTANT**	**Category:**	**Special finish**
Definition:	**Acrylic clear**	**V.O.C. limit:**	**840 g/l**
Code:	**61.1.X20**	**V.O.C. ready to use:**	**580 g/l**
		Product according to 2004/42/CE	

NATURE OF THE PRODUCT

Two-pack topcoat, based on hydroxylated acrylic resins and aliphatic isocyanates with medium solids content and excellent hydrocarbon resistance. The inclusion of nanotechnology products has given particular scratch and weathering resistance.

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. Accurate sanding with scotch brite coarse grain followed by degreasing using solvents.
- Aluminium. Mechanical sanding procedure followed by degreasing using solvents.

Apply the acrylic primer BASIC 2 (69.4.70133 or 69.4.70266) followed by the base coat.

PREPARATION OF THE PRODUCT

	code	name	By Weight	By Volume
Component A	61.1.X20	Clear MS scratch resistant	100 parts	100 parts
Component B	01.H2M	Hardener for two-pack acrylic clears	50 parts	50 parts
In alternative	01.H2	Acryrex H2	50 parts	50 parts

Carefully mix until a uniform aspect and consistency are obtained. The product does not need any dilution. If necessary, dilute maximum at 5% with our acrylic thinners 07.093 or 07.094 (slow version for temperatures >25°C).

APPLICATION

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

Roller or brush: Only for small surfaces[1]

TECHNICAL DATA

PRODUCT TYPE: Two pack product

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

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FILM APPEARANCE (ASTM D 523):	Gloss (>95)	
COLOURS:	transparent	
SPECIFIC WEIGHT (ISO 2811):	0,98 ± 0,02 kg/lt A+B	
SUPPLY VISCOSITY (DIN 53211):	21 ± 2" Ford 4 at 25° C, for component A only	
SOLID ON VOLUME:	43 ± 1% A+B	
SOLIDS CONTENT:	42 ± 1% A+B	
DRYING AT 20°C	- Dust dry:	20-30 minutes
	- Touch dry:	3 hours (2 hours for the F version)
	- Total hardening :	14-18 hours
	- Forced drying	45 minutes at 60°C
	- Maximum chemical resistance:	After 7 days
RECOMMENDED COATS:	Two/three coats	
THICKNESS:	50-60 μm	
THEORETIC YIELD:	12 m²/kg	
POT-LIFE AT 20° C:	2 hours. At higher temperatures, pot-life decreases. For the F version 1h30.	
ADHESION (ASTM D 3359):	B= 5 on surfaces treated like above reported.	
YELLOWING (ASTM D 4587):	ΔE<8 after 1000 hours	

CHEM. RESIST . (UNI EN ISO 12720)[2]:

Acetone	vote 5-4	7 days
Cycloexanone	vote 1	7 days
Solvesso 100	vote 5	7 days
Ethyl acetate	vote 5-4	7 days
Ethanol	vote 4	7 days
Synthetic oil	vote 5	7 days
Idraulic oil	vote 5	7 days
Transmission oil SAE 30	vote 5	7 days
Unleaded gasoline	vote 5	7 days

REPAINTING:	After the complete hardening of the film, it is better a light sanding before over-coating.
STORAGE STABILITY:	Eighteen months for A component, twelve months for B component in closed packs, in a cool, dry place, away from any sources of heat.

[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.