

Date: 24th February 2022

Version:03

Technical Data Sheet

Product Name	
Full Product Name	MS-100 2K Clear
Type of Product	2K Acrylic Urethane Clearcoat
Description	Concept MS-100 2K Clear is an economical, general-purpose, 2K acrylic urethane clearcoat, designed to produce an excellent final finish on a refinish repair without the high cost of materials, whilst providing all of the general characteristics of any typical 2K clear coat. Concept MS-100 2K Clear is characterised by excellent drying, curing, gloss, flow, final finish, with excellent chemical resistance and durability.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
MS-100 2K Clear	37.9	43.3	1.001	8.36	568.3	4.74
MS Uni Hardener Slow	35.4	40.9	1.004	8.38	593.8	4.96
MS Uni Hardener Normal	33.3	39.9	0.986	8.23	593.1	4.95
MS Uni Hardener Fast	33.6	40.2	0.968	8.08	578.3	4.83
MS Uni Hardener Super Fast	31.5	38.9	0.938	7.83	572.7	4.78
2K Thinner Slow	0.0	0.0	0.893	7.45	892.7	7.45
2K Thinner	0.0	0.0	0.882	7.36	881.9	7.36
2K Thinner Fast	0.0	0.0	0.872	7.27	871.5	7.27

Properties
<ul style="list-style-type: none"> Economical
<ul style="list-style-type: none"> Fast drying
<ul style="list-style-type: none"> Excellent through cure
<ul style="list-style-type: none"> Excellent levelling, flow, chemical resistance and durability

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Substrates

- Basecoat system colours
- Sound existing surfaces, except for unstable surfaces such as nitrocellulose or enamels

Substrate Preparation



All Substrates

All surfaces must be clean and free from any contamination prior to application.

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Product Preparation



	Mixing Ratio 2:1 (by volume)			Concept MS-100 2K Clear	Concept MS Uni Hardener
				2 parts	1 part
	Reducer	Up to 10% (v/v) of Concept 2K Thinner, if required.			
	Pot life @ 25°C (77°F)	4-5 hours			
	Spray viscosity @ 25°C (77°F)	BSB 4 Cup Ford 4 Cup	17-18 s 15-16 s		
	Spray equipment	Gun type	Fluid tip	Spray pressure	Spray Distance
		Gravity feed	1.3-1.4 mm 0.051-0.055"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
		Suction feed	1.3-1.4 mm 0.051-0.055"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
		HVLP	1.2-1.3 mm 0.047-0.051"	40-70 kPa 0.4-0.7 bar 6-10 psi	15-20 cm 6-8 inch
	Number of coats	2	Apply two even full coats. Avoid heavy wet coats.		
	DFT Recommended	50-70 µm 2.0-2.8 mils			
	Flash off time @ 25°C (77°F)	5-10 min between coats			
	Drying	Air Dry @ 25°C (77°F)	12-16 hours		
		Low Bake @ 50°C (122°F)	20-30 min		

This data relates only to the material designated herein and does not apply to use in combination with any other material or any process. The data is not to be considered as a warranty or quality specification and we assume no liability in connection with its use.

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Remarks	
	Stir all products thoroughly each time before use. Stir the mixture well after the weigh-out of the components.
	Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Equipment Cleaning	
Use recommended Concept Paints 035 Gunwash	

Dry Film Properties	
After 7 days drying, <u>when compared to similar technology products.</u>	
Gloss	Excellent
Chemical resistance	Excellent
Durability	Excellent

Product Data	
Colour	Water white
Theoretical Coverage	Approx. 8.5 m ² /L (345 ft ² /US gal) @ recommended DFT
Shelf Life	36 months in an unopened container at room temperature, away from sunlight.

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Product Packaging

Product Code	Product Name	Package Size
AU7399000000X	MS-100 2K Clear	1L, 4L, 1.5L (Kit)
AU2139100000X	MS Uni Hardener Slow	500mL, 1L
AU2139200000X	MS Uni Hardener Normal	500mL, 1L
AU2139300000X	MS Uni Hardener Fast	500mL, 1L
AU2139400000X	MS Uni Hardener Super Fast	500mL, 1L
AU8319100000X	2K Thinner Slow	1L, 4L, 20L
AU8319200000X	2K Thinner	1L, 4L, 20L
AU8319300000X	2K Thinner Fast	1L, 4L, 20L

Safety

For automotive and industrial use only by professional painters. Not recommended for sale to, or use by the general public. Before using, read and follow all label and Safety Data Sheet (SDS) precautions. If mixed with other components, the mixture will have hazards of all individual components.

Read and understand the Guidelines for the Safe Handling and Use of Isocyanate Containing Paints, including the use of approved respiratory protection and Personal Protective Equipment. Use only in a well-ventilated approved spray booth, according to local regulations.

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This Technical Data Sheet supersedes all previous issues.

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