

Technical Data Sheet

Product Name	
Full Product Name	701 2K Metal Clear (4:1)
Type of Product	2K Acrylic Urethane Clearcoat
Description	Concept 701 2K Metal Clear (4:1) is a high gloss 2K clearcoat, designed for use over all metals. It can be used directly over aluminium and stainless steel. It is characterized by excellent flow, producing a high gloss with very good chemical resistance, hardness and durability.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
701 2K Metal Clear (4:1)	35.3	39.7	0.976	8.15	589.2	4.92
241 PU Hardener (4:1) Slow	35.4	40.9	1.004	8.38	593.8	4.96
241 PU Hardener (4:1) Normal	33.9	39.9	0.986	8.23	593.1	4.95
241 PU Hardener (4:1) Fast	33.6	40.2	0.968	8.08	578.3	4.83
831 2K Thinner Slow	0.0	0.0	0.893	7.45	892.7	7.45
831 2K Thinner Normal	0.0	0.0	0.882	7.36	881.9	7.36
831 2K Thinner Fast	0.0	0.0	0.872	7.27	871.5	7.27

Properties
<ul style="list-style-type: none"> Suitable for Direct-To-Metal (DTM) Application as well as suitable over all CONCEPT range of basecoat systems.
<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 and flow
<ul style="list-style-type: none"> Excellent chemical resistance and durability

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Substrates

- Concept No Mix system colours
- Concept No Mix-e Basecoat System colours
- Concept Unicolour 900 2K Basecoat system colours
- Mild Steel, Stainless Steel, Aluminium, Brass and other paintable non-ferrous alloys

Substrate Preparation





All Substrates

All Metal surfaces must be cleaned with Concept Ant-Static Cleaner and free from any contamination prior to application.

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Product Preparation					
	Mixing Ratio 4:1 (by volume)	Concept 701 2K Metal Clear (4:1)		Concept 241 PU Hardener	
		4 parts		1 part	
	Reducer	Up to 5% (v/v) of 831 2K Thinner Normal, if required.			
	Pot life @ 25°C (77°F)	6-8 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	40-50 µm 1.6-2.0 mils			
	Flash off time @ 25°C (77°F)	10-15 min between coats			
	Drying	Air Dry @ 25°C (77°F)	Overnight		
		Low Bake @ 50°C (122°F)	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	High
Hardness	Excellent
Chemical resistance	Excellent
Durability	Excellent

Product Data	
Colour	Water white
Theoretical Coverage	Approx. 6.0 m ² /L (245 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
IN7019000000X	701 2K Metal Clear (4:1)	1L, 4L
IN2419100000X	241 PU Hardener (4:1) Slow	250mL, 1L
IN2419200000X	241 PU Hardener (4:1) Normal	250mL, 1L
IN2419300000X	241 PU Hardener (4:1) Fast	250mL, 1L
IN83191000020	831 2K Thinner Slow	20L
IN83192000020	831 2K Thinner Normal	20L
IN83193000020	831 2K Thinner Fast	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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701 2K Metal Clear (4:1)
2K Acrylic Urethane Clearcoat



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