

Technical Data Sheet

Product Name	
Full Product Name	Unicolour 600 2K Solid System
Type of Product	2K acrylic urethane solid topcoat
Description	Concept Unicolour 600 2K Solid System is a 2K Solid tinting system. It incorporates a large range of colour formulations, with high opacity and excellent flow, producing a high gloss, chemical resistant film, with excellent durability.

Tinters						
Code & Name of Tinter	Volume Solids	Weight Solids	Density		VOC	
	%	%	g/mL	lbs/US gal	g/L	lbs/US gal
601 Black	48.9	51.7	1.076	8.98	519.7	4.34
602 Blue	53.0	58.6	1.031	8.60	427.5	3.57
603 Bright Blue	53.4	58.8	1.038	8.66	428.2	3.57
604 Bright Gold	53.4	59.4	1.045	8.72	424.5	3.54
605 Bright Red	53.1	58.8	1.032	8.61	425.3	3.55
610 Deep Black	49.6	53.1	1.059	8.83	495.2	4.13
613 Deep Maroon	44.0	50.2	1.003	8.37	499.3	4.17
615 Green	52.4	57.9	1.051	8.77	443.2	3.70
620 Light Red Oxide	52.8	61.6	1.105	9.22	425.0	3.55
621 Lime Green	51.9	57.7	1.078	9.00	456.7	3.81
622 Magenta	52.3	58.0	1.026	8.57	431.9	3.60
623 Midnight Blue	53.5	59.4	1.032	8.62	419.3	3.50
625 Red Maroon	50.8	54.4	1.064	8.88	484.9	4.05
629 Solar Yellow	51.7	57.2	1.022	8.53	438.0	3.66
630 Violet	50.9	54.1	1.063	8.87	490.0	4.09
631 White	55.0	65.4	1.171	9.77	405.5	3.38
633 Yellow Ochre	53.1	61.5	1.093	9.12	421.0	3.51
641 Reduced Black	51.6	57.3	1.012	8.44	432.5	3.61
642 Reduced Blue	51.8	57.6	1.012	8.45	430.0	3.59
643 Reduced Green	51.8	57.5	1.015	8.47	431.8	3.60
644 Reduced Light Red Oxide	51.8	57.7	1.017	8.48	429.9	3.59
645 Reduced Violet	51.7	57.3	1.012	8.45	433.1	3.61
646 Reduced Yellow Ochre	51.8	57.8	1.018	8.49	429.4	3.58
650 Primrose Yellow	54.5	60.7	1.075	8.97	422.3	3.52

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Tinters						
Code & Name of Tinter	Volume Solids %	Weight Solids %	Density g/mL lbs/US gal		VOC g/L	
651 Mid Yellow	49.7	55.4	1.052	8.78	462.1	3.86
652 Topaz	52.8	58.7	1.034	8.63	427.1	3.56
653 Bright Orange	51.8	60.7	1.130	9.43	441.7	3.69
658 Matting Agent	35.9	43.2	1.093	9.13	621.5	5.19
659 HS Special Red	54.2	59.8	1.049	8.75	421.4	3.52
660 HS Special White	55.8	70.5	1.353	11.30	399.0	3.33
661 HS Special Yellow	53.3	66.0	1.254	10.47	426.9	3.56
664 Coarse Metallic	50.9	58.8	1.048	8.75	432.0	3.61
665 Medium Metallic	50.7	58.1	1.041	8.69	436.0	3.64
Universal (MS) Hardener Fast	33.6	40.2	0.968	8.08	578.3	4.83
Universal (MS) Hardener Normal	33.9	39.9	0.986	8.23	593.1	4.95
Universal (MS) Hardener Slow	35.4	40.9	1.004	8.38	593.8	4.96
Universal (MS) Hardener Super Fast	31.5	38.9	0.938	7.83	572.7	4.78
MS-22 Hardener	42.8	49.3	1.007	8.41	509.9	4.26
2K Thinner Fast	0.0	0.0	0.872	7.27	871.5	7.27
2K Thinner	0.0	0.0	0.882	7.36	881.9	7.36
2K Thinner Slow	0.0	0.0	0.893	7.45	892.7	7.45

Properties
<ul style="list-style-type: none"> • Superior pigment distribution, eliminating mottling
<ul style="list-style-type: none"> • High opacity
<ul style="list-style-type: none"> • Improved colour depth, providing better coverage
<ul style="list-style-type: none"> • Consistency in Tinter/Toner strength, assisting with colour matching
<ul style="list-style-type: none"> • Greater flow characteristics resulting in ease of application
<ul style="list-style-type: none"> • Incorporating an extensive range of colour formulations

Substrates
<ul style="list-style-type: none"> • Concept HS 2K Primer (High Build)
<ul style="list-style-type: none"> • Sound existing surfaces, except for unstable surfaces, e.g. nitrocellulose or enamels.

Substrate Preparation

	All substrates	<ul style="list-style-type: none"> • All surfaces must be thoroughly sanded and cleaned with Concept Wax & Grease Remover prior to application. • Use white or light coloured primers under bright yellows, oranges and reds, if required.
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Product Preparation

	<ul style="list-style-type: none"> • Weigh the tinters into the required base in accordance with the relevant colour formula. • Stir or shake for 10 minutes minimum. • Never leave the mixture stand for more than 30 minutes before mixing. • Check the colour match before application. • For better flow and gloss on large areas use MS-22 Hardener 			
	Mixing ratio 2:1 (by volume)	Concept Unicolour 600 2K Solid Colour	Concept Universal (MS) or MS-22 Hardener	
		2 parts	1 part	
	Reducer	Add between 10%-20% (v/v) of Concept 2K Thinner, if required		
	Potlife @ 25°C (77°F)	2-3 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
		Gravity Feed	1.3-1.4 mm 0.051-0.055"	190-200 kPa 1.9-2.0 bar 27.5-29 psi
		Suction feed	1.5-2.0 mm 0.059-0.079	190-200 kPa 1.9-2.0 bar 27.5-29 psi
	Number of coats / DFT	2-3 coats		40-50 µm 1.6-2.0 mils

Product Preparation cont.

	Flash off time @ 25°C (77°F)	5-10 min between coats	
	Drying	Air Dry	16-24 hours @ 25°C (77°F)
		Low Bake	30-40 min @ 50°C (122°F)
<p>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.</p>			

Remarks

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

Equipment Cleaning

Use recommended Concept Paints cleaner

Dry Film Properties

After 7 days drying,
when compared to similar technology products.

Gloss	High
Chemical resistance	Excellent
Adhesion	Excellent
Durability	Excellent

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Product Data	
Theoretical Coverage	Approx. 9 m ² /L (365 ft ² / US gal) at 50 µm (2.0 mils) DFT
Shelf Life	36 months in an unopened container at room temperature away from sunlight.

Product Packaging			
Product Code 1	Product Code 2	Product Name	Package Size
A11/6xx	60006xx	600 Series Tinters	1L, 4L ^{*)}
AU21391000.50	2139100	MS UNI Hardener Slow	500 mL,
AU21391000001	2139100	MS UNI Hardener Slow	1L
AU21392000.50	2139200	MS UNI Hardener Normal	500 mL,
AU21392000001	2139200	MS UNI Hardener Normal	1L
AU21393000.50	2139300	MS UNI Hardener Fast	500 mL,
AU21393000001	2139300	MS UNI Hardener Fast	1L
AU21394000.50	2139400	MS UNI Hardener Super Fast	500 mL,
AU21394000001	2139400	MS UNI Hardener Super Fast	1L
AU7229300000#		MS-22 Hardener	500mL, 2.5L
AU83191000001	319100	2K Thinner Slow	1L
AU83191000004	319100	2K Thinner Slow	4L
AU83191000020	319100	2K Thinner Slow	20L
AU83192000001	8319200	2K Thinner	1L
AU83192000004	8319200	2K Thinner	4L
AU83192000020	8319200	2K Thinner	20L
AU83193000004	8319300	2K Thinner Fast	4L
AU83193000020	8319300	2K Thinner Fast	20L

* A11/605, 629, 659, 661 and 664 - not available in 4 L size

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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