

Date: 21st October, 2016

Technical Data Sheet

Version:01

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 2 K 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	1.056	8.81	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	1.052	8.78	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	1.067	8.90	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	1.074	8.97	422.3	3.52

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Code & Name of Tinter	Volume Solids %	Weight Solids %	Density g/mL lbs/US gal		VOC g/L	
651 Mid Yellow	49.7	55.4	1.035	8.64	462.1	3.86
652 Topaz	52.8	58.7	1.033	8.62	427.1	3.56
653 Bright Orange	51.8	60.7	1.123	9.37	441.7	3.69
658 Matting Agent	35.9	43.2	1.094	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
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

- Superior pigment distribution, eliminating mottling
- High opacity
- Improved colour depth, providing better coverage
- Consistency in Tinter/Toner strength, assisting with colour matching
- Greater flow characteristics resulting in ease of application
- Incorporating an extensive range of colour formulations

Substrates

- Concept HS 2K Primer (High Build)
- Sound existing surfaces, except for unstable surfaces, e.g. nitrocellulose or enamels.

Substrate Preparation



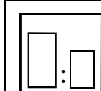
All substrates

- 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.

Product Preparation



- 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.



Mixing ratio 2:1 (by volume)

Concept Unicolour 600 2K Solid Colour

Concept Universal (MS) Hardener

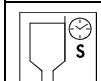
2 parts

1 part



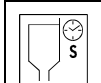
Reducer

Up to 10% (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

Spray Distance

Gravity Feed

1.3-1.4 mm
0.051-0.055"

190-200 kPa
1.9-2.0 bar
27.5-29 psi

15-20 cm
6-8 inch

Suction feed

1.5-2.0 mm
0.059-0.079

190-200 kPa
1.9-2.0 bar
27.5-29 psi

15-20 cm
6-8 inch



Number of coats / DFT

2-3 coats



40-50 µm
1.6-2.0 mils

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
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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)
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.			

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
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Dry Film Properties

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

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 ^{*)}
A04C/UNIMSS	2139100	Universal (MS) Hardener Slow	250 mL, 1L
A04C/UNIMSN	2139200	Universal (MS) Hardener Normal	250 mL, 1L
A04C/UNIMSF	2139300	Universal (MS) Hardener Fast	250 mL, 1L
A04C/UNIMSSF	2139400	Universal (MS) Hardener Super Fast	250 mL, 1L
A08C/2KTHS	8319100	2K Thinner Slow	1L, 4L, 20L, 60L
A08C/2KTHIN	8319200	2K Thinner	1L, 4L, 20L, 60L
A08C/2KTHF	8319300	2K Thinner Fast	1L, 4L, 20L, 60L

^{*)} 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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