

Date: 5<sup>TH</sup> January 2021

# Technical Data Sheet

Version:03

Product Name	
Full Product Name	<b>Unicolour 600 2K Solid System</b>
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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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
MS Uni Hardener Fast	33.6	40.2	0.968	8.08	578.3	4.83
MS Uni Hardener Normal	33.9	39.9	0.986	8.23	593.1	4.95
MS Uni Hardener Slow	35.4	40.9	1.004	8.38	593.8	4.96
MS Uni Hardener Super Fast	31.5	38.9	0.938	7.83	572.7	4.78
MS-22 Hardener	42.8	49.3	1.012	8.48	509.9	4.26
MS-22 Hardener Fast	42.5	49.6	1.007	8.41	505.1	4.11
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
- Sound existing surfaces, except for unstable surfaces, e.g. nitrocellulose or enamels.

## Substrate Preparation



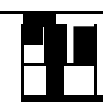
### All substrates

- 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.
- **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 MS Uni Hardener 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

#### 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

## Product Preparation cont

	<b>Flash off time</b> @ 25°C (77°F)	5-10 min between coats	
	<b>Drying</b>	<b>Air Dry</b>	16-24 hours @ 25°C (77°F)
		<b>Low Bake</b>	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 035 Gunwash

## Dry Film Properties

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

<b>Gloss</b>	High
<b>Chemical resistance</b>	Excellent
<b>Adhesion</b>	Excellent
<b>Durability</b>	Excellent

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## Product Data

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

## Product Packaging

Product Code	Product Name	Package Size
AU56XXXXXXXXXX	Unicolour 600 Series Tinters	1L, 4L*
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
AU7229200000X	MS-22 Hardener	500mL, 2.5L
AU7229300000X	MS-22 Hardener Fast	500mL, 2.5L
AU8319100000X	2K Thinner Slow	4L, 20L
AU8319200000X	2K Thinner	1L, 4L, 20L
AU8319300000X	2K Thinner Fast	4L, 20L

\* 604, 605, 613, 621, 622, 623, 629, 630, 642, 643, 644, 645, 646, 658, 659, 661 and 664 - not available in 4L 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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