

# Technical Data Sheet

Product Name	
Full Product Name	<b>Unicolour 600 Industrial Solid System</b>
Type of Product	2K acrylic urethane solid topcoat
Description	Concept Unicolour 600 Industrial Solid System is a high gloss 2K acrylic urethane topcoat, suitable for most industrial and commercial applications. It incorporates a large range of colour formulations, and is characterised by excellent flow, chemical resistance and durability.

Tinters						
Code & Name of Tinter	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
601 IND Black	48.9	51.7	1.076	8.98	519.7	4.34
602 IND Blue	53.0	58.6	1.031	8.60	427.5	3.57
603 IND Bright Blue	53.4	58.8	1.038	8.66	428.2	3.57
604 IND Bright Gold	53.4	59.4	1.045	8.72	424.5	3.54
605 IND Bright Red	53.1	58.8	1.032	8.61	425.3	3.55
610 IND Deep Black	49.6	53.1	1.056	8.81	495.2	4.13
613 IND Deep Maroon	44.0	50.2	1.003	8.37	499.3	4.17
615 IND Green	52.4	57.9	1.052	8.78	443.2	3.70
620 IND Light Red Oxide	52.8	61.6	1.105	9.22	425.0	3.55
621 IND Lime Green	51.9	57.7	1.078	9.00	456.7	3.81
622 IND Magenta	52.3	58.0	1.026	8.57	431.9	3.60
623 IND Midnight Blue	53.5	59.4	1.032	8.62	419.3	3.50
625 IND Red Maroon	50.8	54.4	1.064	8.88	484.9	4.05
629 IND Solar Yellow	51.7	57.2	1.022	8.53	438.0	3.66
630 IND Violet	50.9	54.1	1.067	8.90	490.0	4.09
631 IND White	55.0	65.4	1.171	9.77	405.5	3.38
633 IND Yellow Ochre	53.1	61.5	1.093	9.12	421.0	3.51
641 IND Reduced Black	51.6	57.3	1.012	8.44	432.5	3.61
642 IND Reduced Blue	51.8	57.6	1.012	8.45	430.0	3.59
643 IND Reduced Green	51.8	57.5	1.015	8.47	431.8	3.60
644 IND Reduced Light Red Oxide	51.8	57.7	1.017	8.48	429.9	3.59
645 IND Reduced Violet	51.7	57.3	1.012	8.45	433.1	3.61
646 IND Reduced Yellow Ochre	51.8	57.8	1.018	8.49	429.4	3.58
650 IND Primrose Yellow	54.5	60.7	1.074	8.97	422.3	3.52

# Technical Data Sheet

## Tinters

Code & Name of Tinter	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	
651 IND Mid Yellow	49.7	55.4	1.035	8.64	462.1	3.86
652 IND Topaz	52.8	58.7	1.033	8.62	427.1	3.56
653 IND Bright Orange	51.8	60.7	1.123	9.37	441.7	3.69
658 IND Matting Agent	35.9	43.2	1.094	9.13	621.5	5.19
659 IND HS Special Red	54.2	59.8	1.049	8.75	421.4	3.52
660 IND HS Special White	55.8	70.5	1.353	11.30	399.0	3.33
661 IND HS Special Yellow	53.3	66.0	1.254	10.47	426.9	3.56
664 IND Coarse Metallic	50.9	58.8	1.048	8.75	432.0	3.61
665 IND Medium Metallic	50.7	58.1	1.041	8.69	436.0	3.64


## 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

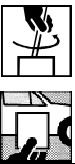






## Substrates

- Concept 110 Metal Etch, 111 Universal Primer (HB), 141 Epoxy Primer, 136 Epoxy Primer(Urethane), 139 PU Primer
- Sound existing surfaces, except for unstable surfaces, e.g. nitrocellulose or enamels.

## Substrate Preparation

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

## Product Preparation



	<ul style="list-style-type: none"> <li>Weigh the tinters in accordance with the relevant colour formula.</li> <li>Stir or shake for 10 minutes, minimum.</li> </ul>				
	<b>Mixing ratio</b> 4:1 (by volume)	<b>Concept</b> <b>Unicolour 600 IND</b> <b>2K Solid Colour</b>		<b>Concept</b> <b>241 Hardener</b>	
		4 parts		1 part	
	<b>Reducer</b>	Up to 10% (v/v) of Concept 831 2K Thinner, if required			
	<b>Potlife</b> @ 25°C (77°F)	2-3 hours			
	<b>Spray viscosity</b> @ 25°C (77°F)	<b>BSB 4 Cup</b> <b>Ford 4 Cup</b>	17-18 s 15-16 s		
	<b>Spray equipment</b>	<b>Gun type</b>	<b>Fluid tip</b>	<b>Spray pressure</b>	<b>Spray Distance</b>
		<b>Gravity Feed</b>	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
		<b>Suction feed</b>	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
	<b>Number of coats / DFT</b>	2-3 coats		40-50 µm 1.6-2.0 mils	

Date: 21<sup>st</sup> July, 2018




# Technical Data Sheet

Version:01

## Product Preparation

	<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)
<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.**

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

Date: 21<sup>st</sup> July, 2018

# Technical Data Sheet

Version: 01

Product Data	
Theoretical Coverage	Approx. 9 m <sup>2</sup> /L (365 ft <sup>2</sup> / 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
6xx		600 IND Series Tinters	1L, 4L
A04c/4:1		241 Hardener	250 mL, 1L
A08C/8312KS	8319100	831 2K Thinner Slow	20L
A08C/8312KN	8319200	831 2K Thinner Normal	20L
A08C/8312KF	8319300	831 2K Thinner Fast	20L

Safety
<p>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.</p> <p>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</p>

The information provided in this documentation has been carefully selected and arranged by us. It is based upon our best knowledge on the subject at the date of issuance. The Information is given for information purposes only. We are not liable for its correctness, accuracy and completeness. It is up to the user to check if the information is current and the product is suitable for its intended purpose. The intellectual property in this Information, including patents, trademarks and copyrights, is protected. All rights reserved.

We may modify and/ or discontinue operation of all or portions of this Information at any time in our sole discretion, without notice and assume no responsibility to update the Information. All rules set forth in this clause shall apply accordingly for any future changes and amendments.

This Technical Data Sheet supersedes all previous issues.

Concept Paints  
26-30 Charles Street  
St Marys NSW 2760  
Sydney, Australia

ph. +61 (2) 9673 2555  
fax. +61 (2) 9623 1918  
info@conceptpaints.com.au  
www.conceptpaints.com.au