

Date: 21st July, 2021

Technical Data Sheet

Version:02

Product Name	
Full Product Name	Industrial 600 2K Solid System
Type of Product	2K acrylic urethane solid topcoat
Description	Concept Industrial 600 2K 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 g/mL lbs/US gal		VOC 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

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Code & Name of Tinter	Volume Solids %	Weight Solids %	Density		VOC g/L	
			g/mL	lbs/US gal		
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
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.

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





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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 in accordance with the relevant colour formula.• Stir or shake for 10 minutes, minimum.				
 Mixing ratio 4:1 (by volume)	Concept Industrial 600 2K Solid Colour		Concept 241 PU Hardener		
	4 parts		1 part		
 Reducer	Up to 10% (v/v) of Concept 831 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

	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 035 Gunwash
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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

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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	Product Name	Package Size
IN6600601000X	Industrial 600 2K Solid Tinters	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
IN8319100000X	831 2K Thinner Slow	20L
IN8319200000X	831 2K Thinner Normal	20L
IN8319300000X	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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