

Date: 31st May, 2022

Technical Data Sheet

Version: 03

Product Name	
Full Product Name	Unicryl 3000 Acrylic System
Type of Product	1K thermoplastic Acrylic topcoat
Description	Concept Unicryl 3000 Acrylic System is a thermoplastic 1K acrylic topcoat designed for coating of automotive components. It is characterised by its high gloss and opacity as well as excellent adhesion and durability.

Tinters						
Code & Name of Tinter	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
3000 Black Tinter	28.6	34.6	0.958	7.99	626.8	5.23
3010 Bright Gold	37.2	45.0	1.004	8.38	552.5	4.61
3020 Lemon Yellow	34.2	41.5	0.984	8.21	575.8	4.81
3030 Bright Metallic	21.6	28.5	0.956	7.98	683.5	5.70
3040 Bright Orange	31.0	40.2	1.001	8.35	598.1	4.99
3050 Bright Yellow	33.4	40.6	0.985	8.22	581.8	4.86
3090 Coarse Metallic	21.3	28.1	0.953	7.96	685.1	5.72
3110 Dark Red Oxide	27.8	37.3	0.999	8.34	626.0	5.22
3120 Deep Black	26.9	32.5	0.959	8.00	647.0	5.40
3130 Deep Blue	36.1	42.9	0.997	8.32	568.8	4.75
3140 Deep Red	35.3	42.7	0.988	8.25	479.3	4.00
3150 Diamond Metallic	22.2	30.7	0.976	8.15	678.5	5.66
3160 Fast Red	32.4	38.8	0.982	8.19	600.9	5.01
3170 Flatting Base	35.9	43.2	1.093	9.13	621.5	5.19
3180 Green Blue	34.5	41.2	0.976	8.14	573.7	4.79
3190 Greenish Gold	29.9	36.2	0.965	8.06	616.5	5.14
3210 Garnet	32.1	38.5	0.975	8.14	599.9	5.01
3220 Light Red Oxide	29.2	39.3	1.012	8.44	614.4	5.13
3230 Lime	29.6	37.0	1.002	8.36	630.9	5.26
3240 Magenta	33.4	40.2	0.973	8.12	582.3	4.86
3250 Maroon Base	28.8	35.0	0.959	8.00	622.9	5.20
3260 Medium Metallic	21.9	28.5	0.952	7.95	681.2	5.69
3270 Micro Metallic	22.4	30.2	0.966	8.06	674.4	5.63
3280 Mid Blue	31.2	37.0	0.985	8.22	620.9	5.18
3290 Mid Yellow	37.6	45.0	1.020	8.51	556.4	4.64

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Code & Name of Tinter	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	
3320 Organic Orange	31.4	40.2	1.006	8.40	592.7	4.95
3330 Permanent Green	30.6	37.4	0.977	8.15	611.6	5.10
3350 Reddish Gold	22.1	30.9	0.989	8.25	683.2	5.70
3360 Red Maroon	34.9	40.4	1.002	8.36	596.6	4.98
3370 Reduced Black	26.3	32.4	0.942	7.86	637.2	5.32
3380 Reduced Green	28.8	35.3	0.951	7.94	615.0	5.13
3390 Reduced Red Oxide	26.3	32.7	0.951	7.93	635.2	5.30
3440 Reduced Blue	26.3	32.3	0.945	7.88	640.0	5.34
3450 Reduced Yellow Ochre	25.4	32.0	0.948	7.91	644.4	5.38
3460 Rich Brown	28.8	35.0	0.959	8.00	622.9	5.20
3470 Rich Maroon	23.0	29.1	0.943	7.87	669.1	5.58
3480 Rich Red	31.7	38.4	0.979	8.17	601.8	5.02
3490 Solar Yellow	31.2	37.6	0.967	8.07	604.1	5.04
3560 Transparent Maroon	28.1	34.7	0.950	7.93	621.1	5.18
3570 Lush Blue	28.6	35.1	0.956	7.98	620.0	5.17
3580 Violet	25.5	31.4	0.945	7.89	647.2	5.40
3590 Yellowish Gold	22.5	31.6	0.994	8.29	679.2	5.67
3660 Yellow Ochre	30.9	42.2	1.039	8.67	600.9	5.01
3690 Extra Fine Aluminium	16.5	24.0	0.969	8.09	735.5	6.14
3700 Fine Aluminium	16.2	24.2	0.973	8.12	737.6	6.16
3710 Medium Aluminium	17.3	24.7	0.970	8.10	730.7	6.10
3720 Coarse Aluminium	17.7	26.8	0.992	8.28	725.7	6.06
3800 White Pearl	16.7	23.7	0.965	8.05	736.1	6.14
3810 Lilac Pearl	16.8	24.5	0.973	8.12	735.2	6.14
3840 Bluish Pearl	17.0	24.1	0.967	8.07	734.3	6.13
3850 Yellowish Pearl	16.4	23.5	0.966	8.06	738.9	6.17
3860 Russet Pearl	15.4	26.7	1.019	8.50	746.9	6.23
3870 Green Pearl	16.2	23.8	0.972	8.11	740.7	6.18
3890 Reddish Pearl	16.0	22.9	0.964	8.04	742.8	6.20
3940 Bright Red	34.9	42.1	0.988	8.25	572.6	4.78
3950 White Tinter	27.3	39.7	1.041	8.69	597.8	4.99
3990 Hi-Op White	29.1	46.6	1.153	9.62	552.2	4.61
3991 Control Additive	18.4	24.3	0.954	7.96	722.1	6.03
Acrylic Thinner	0.0	0.0	0.840	7.01	839.8	7.01
810 Retarder Thinner	0.0	0.0	0.884	7.38	884.0	7.38
Unique Acrylic Clear	28.1	34.5	0.944	7.88	617.9	5.16

Properties

- Superior pigment distribution, eliminating mottling
- 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 Acrylic Primer - Grey
- Concept Two in One Primer - Beige
- Concept 103 Etch Primer
- Concept 110 Metal Etch Grey
- Concept 111 Universal Primer
- Sound existing surfaces, except for unstable surfaces, e.g. nitrocellulose or

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

	<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. 			
Reducer	<ul style="list-style-type: none"> • 1 Part Concept Unicryl 3000 Acrylic colour by volume • 1½ parts Concept Acrylic Thinner by volume • 5-10% 810 Retarder Thinner by volume to minimise blooming may be added, if required. • For blending, mix 1:1 with Concept Unique Acrylic Clear. 			
Pot life @ 25°C (77°F)	N/A			
Spray viscosity @ 25°C (77°F)	BSB 4 Cup Ford 4 Cup	16-19 s 14-17 s		
Spray equipment	Gun type	Fluid tip	Spray pressure	Spray Distance
	Gravity Feed	1.5-2.0 mm 0.059-0.079"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
	Suction feed	1.5-2.0 mm 0.059-0.079"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
	Airless, Air Assisted, Electrostatic	Consult the manufacturer's instructions.		
Number of coats / DFT	3-4 coats		40-50 µm 1.6-2.0 mils	
Flash off time @ 25°C (77°F)	5 min between coats			
Drying	Air Dry		40-60 min @ 25°C (77°F)	
Polishing	Sand thoroughly with P1200 before polishing			




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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.

Gloss	High
Adhesion	Excellent
Durability	Excellent
Metal Protection	Very good

Product Data

Theoretical Coverage	Approx. 5 m ² /L (205 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.

Technical Data Sheet

Product Packaging		
Product Code	Product Name	Package Size
AU5700XXXXXXXX	3000 Series Tinters	1L, 4L*, 20L**
AU8029200000X	Acrylic Thinner	1L, 4L, 20L
AU8109200000X	810 Retarder Thinner	1L, 4L, 20L
AU7069000000X	Unique Acrylic Clear	1L, 4L, 20L

* Only 3010, 3090, 3140, 3160, 3190, 3210, 3230, 3250, 3460, 3490, 3560, 3590, 3800, 3810, 3840, 3850, 3860, 3870 and 3890 are only available in 1L size.

** Only 3990 is available in a 20L 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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