

Date: 14 April 2023

Technical Data Sheet

Version: 04

Product Name	
Full Product Name	No Mix LV Basecoat
Type of Product	2K low VOC solvent borne clear over base (COB) basecoat
Description	Concept No Mix LV Basecoat is a Low VOC Automotive Refinish Colour System. It is an 'eco-friendly', VOC-compliant clear over base (C.O.B) tinting system that requires NO MIXING or any mixing machine . It is characterized by superior colour strength, depth and flow properties and ease of colour matching.

Toners/Tinters						
Code & Name of Toner/Tinter	Density		Weight Solids	Volume Solids	VOC	
	g/L	lbs/US gal			USA REG lbs/US gal	USA ACT lbs/US gal
LV-01 Black	1.063	8.87	35.0	30.0	3.48	1.84
LV-02 Blue	0.986	8.22	40.2	33.7	3.18	1.85
LV-03 Bright Blue	1.076	8.98	25.7	21.8	2.21	0.67
LV-04 Bright Gold	1.070	8.93	36.0	31.1	2.72	1.28
LV-05 Bright Red	1.079	9.01	27.2	23.8	2.36	0.80
LV-07 Copper	1.099	9.17	31.6	24.3	2.79	1.07
LV-08 Vivid Magenta	0.930	7.80	29.4	23.6	3.30	1.60
LV-09 Raven Black	0.932	7.78	17.10	13.27	3.19	0.75
LV-10 Deep Black	1.108	9.24	28.0	26.3	2.05	0.73
LV-11 Cobalt Blue	1.071	8.94	31.3	28.0	2.60	1.08
LV-12 Maroon	1.124	9.38	21.8	18.9	2.89	0.88
LV-13 Deep Maroon	1.125	9.39	23.2	20.2	2.84	0.91
LV-14 Garnet	1.052	8.78	31.1	27.2	2.86	1.21
LV-15 Green	1.104	9.21	33.6	29.0	2.63	1.14
LV-16 Green Blue	1.045	8.72	35.5	31.2	2.90	1.42
LV-17 Green Gold	1.086	9.06	33.4	29.9	3.09	1.49
LV-18 Grey Black	1.086	9.06	29.7	25.4	2.40	0.87
LV-19 Empress Black	1.022	8.53	15.0	11.6	3.22	0.63
LV-20 Light Red Oxide	1.136	9.48	30.5	23.1	2.83	1.02
LV-21 Lime	1.131	9.44	32.3	27.1	1.65	0.56
LV-22 Magenta	1.072	8.95	30.3	26.8	2.74	1.12

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LV-23 Midnight Blue	1.072	8.94	34.8	30.0	2.54	1.12
LV-24 Red Gold	1.105	9.22	31.9	25.1	2.56	0.97
LV-25 Red Maroon	1.080	9.02	31.2	27.7	3.09	1.42
LV-26 Vivid Orange	1.160	9.70	29.4	23.6	3.00	1.40
LV-27 Ruby	0.970	8.10	30.5	24.8	2.90	1.70
LV-29 Midnight Black	1.028	8.58	37.7	32.1	2.75	1.31
LV-30 Violet	1.062	8.86	24.0	20.8	2.35	0.70
LV-31 White	1.283	10.71	45.3	31.5	1.90	0.79
LV-32 Yellow Gold	1.097	9.16	33.2	24.2	2.96	1.18
LV-33 Yellow Ochre	1.147	9.57	33.1	24.7	2.59	0.96
LV-34 Special Violet	1.077	8.98	28.3	25.6	2.54	0.96
LV-35 Port Wine Red	1.080	9.01	32.0	29.1	3.10	1.49
LV-36 Deep Blue	1.091	9.10	31.8	28.9	2.76	1.23
LV-37 Special Deep Black	1.089	9.09	21.0	18.5	2.97	0.88
LV-38 Special Red Maroon	1.095	9.14	30.4	27.8	1.77	0.63
LV-39 HS Special Red	1.071	8.93	31.1	26.9	2.67	1.08
LV-40 Royal Blue	1.121	9.35	31.2	29.2	2.96	1.38
LV-41 Reduced Black	1.058	8.83	23.4	20.1	2.67	0.81
LV-42 Silk Silver	1.143	9.54	30.1	21.6	2.54	0.81
LV-43 Silk Russet	1.141	9.52	29.5	21.0	2.74	0.89
LV-44 Silk Gold	1.147	9.57	30.2	21.6	2.55	0.82
LV-45 Silk Blue	1.145	9.56	30.3	21.8	2.55	0.83
LV-46 Silk Red	1.147	9.57	30.2	21.7	2.62	0.86
LV-47 Silk Green	1.151	9.61	30.7	21.9	2.55	0.83
LV-48 Silk Copper	1.132	9.44	28.7	20.9	2.67	0.85
LV-51 Red Yellow	1.095	9.14	32.1	28.6	3.43	1.71
LV-52 Topaz	1.100	9.18	34.2	29.3	2.45	1.03
LV-53 Organic Orange	1.066	8.89	29.9	24.2	3.02	1.24
LV-54 Special Silver Bright Fine	1.120	9.30	33.8	30.0	2.90	1.70
LV-55 Special Silver Coarse	1.130	9.40	40.4	36.8	2.50	1.50
LV-56 Silver Dollar Bright Coarse	1.150	9.60	24.2	20.4	2.70	1.00
LV-57 Silver Dollar Bright Fine	1.120	9.30	32.7	28.8	3.20	1.90
LV-59 Metallic Additive	1.060	8.85	23.0	19.6	2.59	0.79
LV-60 Stabilizer Additive	1.068	8.91	22.4	19.4	2.81	0.84
LV-61 Effect White	1.180	9.84	38.1	29.6	3.07	1.49
LV-62 HS Special White	1.392	11.62	51.6	32.9	2.41	1.14
LV-63 HS Special Yellow	1.288	10.75	45.6	31.0	2.57	1.17

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LV-65 Fine Metallic	1.087	9.08	25.0	20.4	2.80	0.90
LV-68 Extra Fine Silver	1.080	9.01	24.9	20.3	2.80	0.90
LV-69 Fine Silver	1.088	9.09	25.0	20.4	2.80	0.90
LV-70 Silver	1.092	9.11	25.3	20.5	2.75	0.89
LV-71 Medium Silver	1.092	9.11	25.9	20.7	2.82	0.93
LV-72 Coarse Silver	1.087	9.07	26.0	20.8	2.78	0.91
LV-74 Coarse Aluminium	1.080	9.01	24.8	20.2	2.79	0.89
LV-75 Extra Coarse Aluminium	1.086	9.06	26.1	20.7	2.77	0.91
LV-77 Fine White Pearl	1.164	9.71	31.9	23.2	2.39	0.80
LV-78 White Sparkle Pearl	1.142	9.53	30.7	22.5	2.48	0.82
LV-79 Bright Silver Pearl	1.204	10.05	29.87	23.21	3.14	1.28
LV-80 Yellow Pearl	1.163	9.70	32.4	23.2	2.43	0.82
LV-82 Fine Yellow Gold Pearl	1.120	9.35	30.1	22.0	2.69	0.95
LV-83 Orange Pearl	1.090	9.10	26.0	20.4	3.03	1.03
LV-86 Copper Pearl	1.163	9.70	32.8	23.1	2.36	0.78
LV-87 Bright Russet Pearl	1.179	9.84	33.5	23.3	2.41	0.81
LV-88 Fine Russet Pearl	1.179	9.84	33.4	23.1	2.45	0.83
LV-89 Blue Russet Pearl	1.150	9.60	31.2	22.4	2.50	0.83
LV-90 Red Blue Pearl	1.166	9.73	31.8	22.7	2.38	0.78
LV-91 Fine Blue Pearl	1.171	9.77	32.9	23.0	2.45	0.82
LV-92 Green Blue Pearl	1.148	9.58	30.9	22.5	2.49	0.82
LV-93 Fine Green Pearl	1.166	9.73	32.6	23.0	2.40	0.80
LV-95 Blue Green Pearl	1.162	9.70	32.4	23.1	2.38	0.79
LV-96 Red Pearl	1.156	9.64	31.6	22.9	2.56	0.87
LV-97 Fine Silver Pearl	1.138	9.50	30.2	22.0	2.65	0.88
LV-98 Fine Violet Pearl	1.171	9.77	33.2	23.4	2.36	0.79
LV-99 Metallic Raiser	1.086	9.06	26.3	21.6	2.54	0.81
LV-101 Red Candy	1.029	8.59	16.9	14.0	2.99	0.68
LV-102 Brandy Wine Candy	1.062	8.86	18.7	16.0	2.93	0.75
LV-103 Yellow Candy	1.075	8.97	20.4	17.8	3.04	0.88
LV-104 Green Candy	1.067	8.90	20.4	17.6	2.37	0.60

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Toners/Tinters						
Zero VOC Reducer Normal	1.178	9.83	0.0	0.0	0.00	0.00
Low VOC Reducer Slow	1.254	10.47	0.0	0.0	0.00	0.00
LV Primer Hardener (Zero VOC)	1.272	10.61	34.5	37.8	0.00	0.00
HS LV-1.9 Primer - Grey	1.660	13.80	64.4	48.6	2.20	1.80
HS LV-1.9 Primer – White	1.660	13.80	64.2	48.5	2.20	1.80
HS LV-1.9 Primer - Black	1.670	13.90	64.2	48.1	2.20	1.80

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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 Paints HS LV-1.9 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.

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Product Preparation

	Reducer	Up to 150% (v/v) of Concept Zero VOC Reducer Note: recommended for better adhesion to activate, 5% of Concept LV Primer Hardener (Zero VOC) can be added to the No Mix LV colour, before thinning, if required.			
	Pot life @ 25°C (77°F)	N/A			
	Spray viscosity @ 25°C (77°F)	BSB 4 Cup Ford 4 Cup	13-15 s 11-13 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	1.3-1.4 mm 0.051-0.055"	190-200 kPa 1.9-2.0 bar 27.5-29 psi	15-20 cm 6-8 inch
		HVLP	1.2-1.3 mm 0.047-0.051"	40-70 kPa 0.4-0.7 bar 6-10 psi	15-20 cm 6-8 inch
	Number of coats / DFT	2-3 coats	20-25 µm 0.8-1.0 mil		
	Flash time @ 25°C (77°F)	5-10 min between No Mix_LV (a minimum of 30 minutes flash off before applying the Concept recommended HS-Pro Clear 3:1)			
	Drying	Air Dry @ 25°C (77°F)	30-40 min before applying the HS-Pro Clear (3:1)		
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.					

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Remarks	
	5 – 10% v/v of Concept LV-99 Metallic Raiser may be added for a brighter, cleaner and a more brilliant face and flip, if required
	Shake all Tinters/Toners thoroughly each time before use. Stir the mixture well after the weigh-out of the components.
	Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Equipment Cleaning	
Use recommended Concept Paints 035 Gunwash	

Product Data	
Theoretical Coverage	Approx. 16 m ² /L (650 ft ² /US gal @ 25 µm (1.0 mil) DFT
Shelf Life	36 months in an unopened container at room temperature away from sunlight.

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Product Packaging

48 x Concept No Mix LV Solid and Reduced Toners	250mL, 1L
7 x Concept No Mix LV Xirallic Toners	250mL
14 x Concept No Mix LV Metallic Toners	1L
17 x Concept No Mix LV Pearl Toners	1L
4 x Concept No Mix LV Candy Toners	250mL
1 x Concept No Mix LV Metallic Raiser Tinter (LV-99)	1L
Concept Zero VOC Reducer Normal	5L, 20L
Low VOC Reducer Slow	5L, 20L
Concept HS LV-1.9 Primer (Grey, White, Black)	4L
Concept LV Primer Hardener (Zero VOC)	1L
Concept HS-Pro Clear (3:1)	3L, 8Lt (Kit)

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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