

Technical Data Sheet

Product Name	
Full Product Name	2K Empress Black
Type of Product	2K acrylic urethane topcoat
Description	Concept 2K Empress Black is a high performance 2K black topcoat. It is formulated to match the intensely jet black paint colour used on a number of OEM vehicles. It is characterized by its excellent flow, producing high gloss, high opacity with excellent chemical resistance and durability.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
2K Empress Black	26.6	32.2	0.965	8.05	656.0	5.47
Universal (MS) Slow Hardener	35.4	40.9	1.004	8.38	593.8	4.96
Universal (MS) Normal Hardener	33.3	39.9	0.986	8.23	593.1	4.95
Universal (MS) Fast Hardener	33.6	40.2	0.968	8.08	578.3	4.83
Universal (MS) Super Fast Hardener	31.5	38.9	0.938	7.83	572.7	4.78
2K Thinner Slow	0.0	0.0	0.893	7.45	892.7	7.45
2K Thinner	0.0	0.0	0.882	7.36	881.9	7.36
2K Thinner Fast	0.0	0.0	0.872	7.27	871.5	7.27

Properties
<ul style="list-style-type: none"> • High performance, opacity and jetness of colour
<ul style="list-style-type: none"> • Fast drying
<ul style="list-style-type: none"> • Excellent through cure
<ul style="list-style-type: none"> • Excellent levelling and flow
<ul style="list-style-type: none"> • High gloss

Substrates

- Concept HS 2K Primer
- Sound existing surfaces, except for unstable surfaces such as nitrocellulose or enamels.

Substrate Preparation



All Substrates




All surfaces must be thoroughly sanded and cleaned with Concept Wax & Grease Remover prior to application.

Product Preparation



	Mixing Ratio 2:1 (by volume)	Concept 2K Empress Black		Concept Universal (MS) Hardener	
		2 parts		1 part	
	Reducer	Up to 10% (v/v) of Concept 2K Thinner, if required.			
	Pot life @ 25°C (77°F)	2-3 hours			
	Spray viscosity @ 25°C (77°F)	BSB 4 Cup Ford 4 Cup	16-17 s 14-15 s		
	Spray equipment	Gun type	Fluid tip	Spray pressure	Spray Distance
		Gravity feed	1.3-1.4 mm 0.051-0.055"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
		Suction feed	1.3-1.4 mm 0.051-0.055"	200-240 kPa 2.0-2.4 bar 30-35 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	2-3	Apply one coat followed by one or two even full coats. Avoid heavy wet coats.		

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Product Preparation cont

	DFT Recommended	40-50 µm 1.6-2.0 mils	
	Flash off time @ 25°C (77°F)	5-10 min between coats	
	Drying	Air Dry @ 25°C (77°F)	16-24 hours
		Low Bake @ 50°C (122°F)	30-40 min
<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.
	Surface temperature must always be a minimum of 3°C (5°F) above dew point.

Equipment Cleaning

Use recommended Concept Paints cleaner
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Dry Film Properties

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

Gloss	Excellent
Chemical resistance	Excellent
Durability	Excellent

Product Data	
Colour	Black
Theoretical Coverage	Approx. 9.0 m ² /L (365 ft ² /US gal) @ recommended 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
A06C/EMPBLKS	3607003	2K Empress Black	1L, 4L
A04C/UNIMSS	2139100	Universal (MS) Slow Hardener	500 mL, 1L
A04C/UNIMSN	2139200	Universal (MS) Normal Hardener	500 mL, 1L
A04C/UNIMSF	2139300	Universal (MS) Fast Hardener	500 mL, 1L
A04C/UNIMSSF	2139400	Universal (MS) Super Fast Hardener	500 mL, 1L
A08C/2KTHS	8319100	2K Thinner Slow	1L, 4L, 20L
A08C/2KTHIN	8319200	2K Thinner	1L, 4L, 20L
A08C/2KTHF	8319300	2K Thinner Fast	1L, 4L, 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>

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This Technical Data Sheet supersedes all previous issues.

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