Date: 21st October 2016



Technical Data Sheet

Version:01

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 %	Den g/mL lb	sity bs/US gal	VC g/L ال)C bs/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

- High performance, opacity and jetness of colour
- Fast drying
- Excellent through cure
- Excellent levelling and flow
- High gloss



Date: 21st October 2016

Technical Data Sheet

Version:01

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.				
AB	Pot life @ 25°C (77°F)	2-3 hours				
S	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	
> 31 €		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		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.			



Date: 21st October 2016

Technical Data Sheet

Version:01

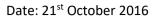
Prod	uct Preparat	ion cont			
	DFT Recommended	40-50 μm 1.6-2.0 mils			
	Flash off time @ 25°C (77°F)	5-10 min between coats			
	Drying	Air Dry 16-24 hours			
		Low Bake @ 50°C (122°F) 30-40 min			
This data relates only to the material designated herein and does not apply to use in combination with 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.
●F / °C	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.	
Gloss	Ecellent	
Chemical resistance	Excellent	
Durability	Excellent	



Technical Data Sheet

Version:01

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 A04C/UNIMSS A04C/UNIMSN A04C/UNIMSF A04C/UNIMSSF A08C/2KTHS A08C/2KTHIN	3607003 2139100 2139200 2139300 2139400 8319100 8319200	2K Empress Black Universal (MS) Slow Hardener Universal (MS) Normal Hardener Universal (MS) Fast Hardener Universal (MS) Super Fast Hardener 2K Thinner Slow 2K Thinner	1L, 4L 500 mL, 1L 500 mL, 1L 500 mL, 1L 500 mL, 1L 1L, 4L, 20L 1L, 4L, 20L
A08C/2KTHF	8319300	2K Thinner Fast	1L, 4L, 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.

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