



# Technical Data Sheet

## 2K Black Pearl (2:1)

2K Acrylic Urethane Topcoat

Date: 21<sup>st</sup> October 2016

Version:01

Product Name	
Full Product Name	<b>2K Black Pearl (2:1)</b>
Type of Product	2K acrylic urethane topcoat
Description	Spray Chief 2K Black Pearl (2:1) is a unique 2K black pearl topcoat producing an unmatched finish, where the pearl particle is only highlighted by direct light, whilst in the shade it remains a deep shade of black. It is available in a range of different effects.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
2K Black Pearl Aqua (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Blue (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Copper (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Gold (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Green (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Lilac (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Platinum (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2K Black Pearl Red (2:1)	49.9	55.0	1.028	8.58	463.5	3.87
2:1 MS Hardener	33.9	39.9	0.986	8.23	593.1	4.95
2K Thinner	0.0	0.0	0.882	7.36	881.9	7.36

Properties	
<ul style="list-style-type: none"> <li>Effect finish</li> </ul>	
<ul style="list-style-type: none"> <li>Exceptional colour properties</li> </ul>	



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### Substrates

- Spray Chief Epoxy Primer (4:1) Black.








### Substrate Preparation



#### All Substrates

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

### Product Preparation

	<b>Mixing Ratio</b> 2:1 (by volume)	<b>Spray Chief</b> 2K Black Pearl (2:1)		<b>Spray Chief</b> 2:1 MS Hardener	
		2 parts		1 part	
	<b>Reducer</b>	Up to 10% (v/v) of Spray Chief 2K Thinner, if required			
	<b>Pot life</b> @ 25°C (77°F)	2-3 hours			
	<b>Spray viscosity</b> @ 25°C (77°F)	<b>BSB 4 Cup</b> <b>Ford 4 Cup</b>	18-20 s 16-18 s		
  	<b>Spray equipment</b>	<b>Gun type</b>	<b>Fluid tip</b>	<b>Spray pressure</b>	<b>Spray Distance</b>
		<b>Gravity feed</b>	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
		<b>Suction feed</b>	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
		<b>HVLP</b>	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



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


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
### Product Preparation cont

	<b>Number of coats</b>	3	<ul style="list-style-type: none"><li>• Apply one medium to wet coat</li><li>• Allow 5-10 min flash-off, or until touch dry. Then apply a second wet coat.</li><li>• Allow it to nearly flash off, before applying a final pattern coat, to get an even finish. Avoid heavy wet coats.</li></ul>
	<b>DFT Recommended</b>	50-60 µm 2.0-2.4 mils	
	<b>Flash off time @ 25°C (77°F)</b>	15-25 min between coats, or until touch dry	
	<b>Drying</b>	<b>Air Dry @ 25°C (77°F)</b>	12-16 hours
		<b>Low Bake @ 50°C (122°F)</b>	30-40 min
	<b>Overcoating</b>	Overcoat with Spray Chief's 2K Clear (HS) 2:1 after 20-30 min final flash-off, or until touch dry, if required. Refer to the relevant Technical Data Sheet.	

Spray Chief has no control over the thickness or application of the product being applied nor the conditions under which it is being used. These instructions are a guide only and a test panel is recommended before use

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.
	Surface temperature must always be a minimum of 3°C (5°F) above dew point.



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### Equipment Cleaning

Use recommended Spray Chief cleaner

### Dry Film Properties

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

**Hardness**

Excellent

**Chemical resistance**

Excellent

### Product Data

**Colour**

Effect Black

**Theoretical Coverage**

Approx. 8 m<sup>2</sup>/L (325 ft<sup>2</sup>/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
A16/BPA2:1	8744003	2K Black Pearl Aqua (2:1)	1.5L (Kit)
A16/BPB2:1	8744004	2K Black Pearl Blue (2:1)	1.5L (Kit)
A16/BPC2:1	8743009	2K Black Pearl Copper (2:1)	1.5L (Kit)
A16/BPG2:1	8741009	2K Black Pearl Gold (2:1)	1.5L (Kit)
A16/BPGR2:1	8745012	2K Black Pearl Green (2:1)	1.5L (Kit)
A16/BPL2:1	8743010	2K Black Pearl Lilac (2:1)	1.5L (Kit)
A16/BPP2:1	8747009	2K Black Pearl Platinum (2:1)	1.5L (Kit)
A16/BPR2:1	8743011	2K Black Pearl Red (2:1)	1.5L (Kit)
A16/2:1HARDMS	8899200	2:1 MS Hardener	500mL, 1L
A16/2KTHIN	8949200	2K Thinner	1L, 4L, 20L



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### 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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