

# Technical Data Sheet

Product Name	
Full Product Name	<b>404 PU Black</b>
Type of Product	2K Acrylic Urethane Topcoat
Description	Concept 404 PU Black is a high performance 2K black topcoat. It is characterized by excellent flow, producing a jet black appearance, high gloss as well as excellent chemical resistance and durability.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
404 PU Black	50.0	53.9	1.047	8.74	482.9	4.03
213 Hardener Slow	35.4	40.9	1.004	8.38	593.8	4.96
213 Hardener Normal	33.3	39.9	0.986	8.23	593.1	4.95
213 Hardener Fast	33.6	40.2	0.968	8.08	578.3	4.83
213 Hardener Super Fast	31.5	38.9	0.938	7.83	572.7	4.78
831 2K Thinner Slow	0.0	0.0	0.893	7.45	892.7	7.45
831 2K Thinner Normal	0.0	0.0	0.882	7.36	881.9	7.36
831 2K Thinner Fast	0.0	0.0	0.872	7.27	871.5	7.27

Properties
<ul style="list-style-type: none"> <li>High performance, producing a jet black coating</li> </ul>
<ul style="list-style-type: none"> <li>Fast drying</li> </ul>
<ul style="list-style-type: none"> <li>Excellent through cure</li> </ul>
<ul style="list-style-type: none"> <li>Excellent levelling and flow</li> </ul>
<ul style="list-style-type: none"> <li>High gloss</li> </ul>

## 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

	<b>Mixing Ratio</b> 2:1 (by volume)	<b>Concept 404 PU Black</b>		<b>213 Hardener Normal</b>	
		2 parts		1 part	
	<b>Reducer</b>	Up to 10% (v/v) of Concept 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>	16-17 s		
		<b>Ford 4 Cup</b>	14-15 s		
		<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	
	<b>Number of coats</b>	2-3	Apply one coat followed by one or two even full coats. Avoid heavy wet coats.		

# Technical Data Sheet

Product Preparation cont		
	<b>DFT Recommended</b>	40-50 µm 1.6-2.0 mils
	<b>Flash off time @ 25°C (77°F)</b>	5-10 min between coats
	<b>Air Dry @ 25°C (77°F)</b>	16-24 hours
	<b>Low Bake @ 50°C (122°F)</b>	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

Dry Film Properties	After 7 days drying, <u>when compared to similar technology products.</u>
Gloss	Excellent
Chemical resistance	Excellent
Durability	Excellent

# Technical Data Sheet

Product Data	
<b>Colour</b>	Black
<b>Theoretical Coverage</b>	Approx. 9.0 m <sup>2</sup> /L (365 ft <sup>2</sup> /US gal) @ recommended DFT
<b>Shelf Life</b>	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/2KBLK	3607000	404 PU Black	1L, 4L, 20L
A04C/UNIMSS	2139100	213 Hardener Slow	500 mL, 1L
A04C/UNIMSN	2139200	213 Hardener Normal	500 mL, 1L
A04C/UNIMSF	2139300	213 Hardener Fast	500 mL, 1L
A04C/UNIMSSF	2139400	213 Hardener Super Fast	500 mL, 1L
A08C/2KTHS	8319100	831 2K Thinner Slow	1L, 4L, 20L
A08C/2KTHIN	8319200	831 2K Thinner	1L, 4L, 20L
A08C/2KTHF	8319300	831 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.</p> <p>Use only in a well-ventilated approved spray booth, according to local regulations.</p>

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