

# Technical Data Sheet

Product Name	
Full Product Name	<b>Unicote 324 2K Polyurethane (Economy)</b>
Type of Product	2K fast drying acrylic urethane topcoat
Description	Concept Unicote 324 2K Polyurethane (Economy) is a 2K acrylic urethane topcoat, characterised by its durability, excellent flow and gloss. It is suitable for most industrial and commercial applications. This product is designed for cost saving applications.

Tinters						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
341 White	70.0	84.7	1.909	15.93	291.2	2.43
342 Yellow Ochre	63.5	79.0	1.689	14.10	354.6	2.96
343 Black	60.2	64.5	1.083	9.04	384.1	3.21
344 Bright Blue	52.6	53.8	1.163	9.71	537.5	4.49
345 Green Blue	56.7	61.4	1.088	9.08	419.8	3.50
346 Violet	53.9	54.4	1.122	9.36	512.0	4.27
347 Bright Red	58.1	64.4	1.141	9.52	406.8	3.40
348 Magenta	58.6	62.6	1.072	8.94	401.4	3.35
349 Bright Yellow	56.2	62.2	1.125	9.39	425.4	3.55
350 Mid Yellow	44.2	50.1	1.085	9.06	541.8	4.52
351 Scarlet	59.8	68.5	1.240	10.35	390.3	3.26
352 Green	55.6	59.5	1.234	10.30	500.3	4.18
353 Dark Red Oxide	61.6	76.9	1.612	13.46	372.6	3.11
354 Jet Black	53.1	56.7	1.053	8.78	455.5	3.80
355 Red	63.1	66.1	1.187	9.91	402.4	3.36
371 Reduced Yellow Ochre	62.5	68.7	1.161	9.69	363.9	3.04
372 Reduced Black	61.8	65.0	1.059	8.84	370.3	3.09
373 Reduced Green Blue	60.6	64.3	1.060	8.85	378.9	3.16
374 Reduced Scarlet	61.8	66.0	1.093	9.12	371.2	3.10
375 Reduced Green	60.8	63.8	1.092	9.11	395.5	3.30
381 Silver	41.4	54.4	1.171	9.78	533.7	4.45
382 Coarse Silver	42.5	51.4	1.116	9.31	541.4	4.52
399 Flattening Base	35.9	43.2	1.094	9.13	621.5	5.19

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## Products

Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
324 2K Polyurethane(Economy) Base	34.3	40.2	0.967	8.07	590	4.9
324 Hardener (8:1)	65.9	70.0	1.64	8.23	301.1	2.52
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

- Superior performance
- High gloss
- Quick and easy application




## Substrates

- Mild Steel
- Aluminium
- Galvanised Iron
- Glass Reinforced Plastics (GRP)
- Previously painted substrates in sound condition

## Substrate Preparation

 <b>Mild Steel</b>	<b>DTM:</b> Sand with 240 Frecut <b>Primer:</b> <u>Optimal:</u> Concept 2K HS Primer or Concept 136 Epoxy Primer(Urethane), or Concept 141 Epoxy Primer <u>Standard:</u> Apply Concept 103 Etch Primer or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
<b>Aluminium</b>	<u>Optimal:</u> Apply Concept 2K 141 Epoxy Primer or Concept 132 2K Etch Primer with Concept 2K HS Primer <u>Standard:</u> Apply Concept 103 Etch Primer or Concept 110 Metal Etch or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
<b>Galvanised Iron</b>	<u>Optimal:</u> Apply Concept 2K 141 Epoxy Primer, or Concept 132 2K Etch Primer with Concept 2K HS Primer <u>Standard:</u> Apply Concept 103 Etch Primer or Concept 110 Metal Etch or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
<b>Glass Reinforced Plastics (GRP)</b>	<u>Optimal:</u> Apply Concept 2K 141 Epoxy Primer or Concept 2K HS Primer <u>Standard:</u> Apply Concept 103 Etch Primer or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
<b>Previously painted Surfaces</b> (in soundcondition)	Sand with P600 wet or dry
<b>Special Notes:</b> <ul style="list-style-type: none"> <li>All surfaces must be thoroughly sanded and cleaned with Concept Wax &amp; Grease Remover prior to application.</li> <li>Use white or light coloured primers under bright yellows, oranges and reds, if required.</li> <li>The above systems are examples only. For further information, please contact Concept Paints Technical Representative.</li> </ul>	


## Product Preparation

 	<ul style="list-style-type: none"> <li>Weigh the concentrates into the required base in accordance with the relevant colour formula.</li> <li>A maximum of only 10% reduced concentrates is allowed and a maximum of 35% for all concentrates, in total.</li> <li>Stir or shake for a minimum of 10 minutes</li> <li>Never leave the mixture stand for more than 30 minutes before mixing.</li> </ul>		
 <b>Mixing Ratio</b> <b>8:1 (by volume)</b>		<b>Unicote 324 2K Polyurethane(Economy)</b>  8 parts	<b>Unicote 324 Hardener (8:1)</b>  1 part




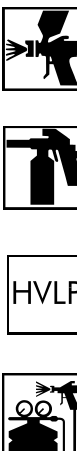




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	<b>Reducer</b>	Up to 20% (v/v) Concept 2K Thinner, if required
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## Product Preparation cont

	<b>Matting</b> (if required)	<b>Satin Finish:</b> Add 30% of 399 Flattening Base. <b>Matt Finish:</b> Add 45% of 399 Flattening Base. <b>Notes:</b> <ul style="list-style-type: none"><li>• Never add more than 50% of 399 Flattening Base.</li><li>• 399 Flattening Base must be added before adding a hardener or thinner.</li><li>• The addition of 399 Flattening Base will reduce coverage.</li></ul>			
	<b>Pot life</b> @ 25°C (77°F)	2-3 hours			
	<b>Spray viscosity</b> @ 25°C (77°F)	<b>BSB 4 Cup</b>	17-19 s		
		<b>Ford 4 Cup</b>	15-17 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>	1.2-1.4 mm 0.047-0.055"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
		<b>Suction feed</b>	1.5-2.0 mm 0.059-0.079"	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>Airless, Air Assisted, Electrostatic</b>	Consult the manufacturer's instructions.		
	<b>Number of coats</b>	2-3	Apply one light coat followed by one or two even full coats. Avoid heavy wet coats.		
	<b>DFT Recommended</b>	50 µm 2.0 mils			
	<b>Flash off time</b> @ 25°C (77°F)	5-10 min between coats (15-20 min for Unicote 324 2K Polyurethane Base(Economy))			
	<b>Drying</b>	<b>Air Dry</b> @ 25°C (77°F)	Tack Free: 3-4 hours for Unicote 324 2K Polyurethane(Economy) (Recoat-able with itself after any time)		




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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.
	Before application a colour comparison is recommended
	Surface temperature must always be a minimum of 3°C (5°F) above dew point.

## Equipment Cleaning

Use recommended Concept Paints cleaner such as Concept Gunwash or Multi-Thinner

## Dry Film Properties

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

Gloss 60/20°	94/87
Water resistance	Excellent
Petrol resistance	Excellent
Durability	Excellent

## Product Data

Theoretical Coverage	Approx. 8.0 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
G/324	2539300	Unicote 324 2K Polyurethane(Economy) Base	20L
A04C/8:1		Unicote 324 Hardener (8:1)	250 mL, 1L
A08C/2KTHS	8319100	831 2K Thinner Slow	1L, 4L, 20L
A08C/2KTHIN	8319200	831 2K Thinner Normal	1L, 4L, 20L
A08C/2KTHF	8319300	831 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.

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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