

Technical Data Sheet

Product Name	
Full Product Name	Unicote 303 Auto Enamel
Type of Product	1K alkyd enamel
Description	Concept Unicote 303 Auto Enamel Base is an air drying automotive enamel with very good flow and gloss, excellent metal protection and adhesion to most surfaces. It is characterised by an extensive colour formulation database.

Products						
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	68.6	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	61.0	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
303 Auto Enamel Base	35.6	43.6	0.913	7.62	514.3	4.29
804 Enamel Thinner	0.0	0.0	0.802	6.69	0.802	6.69


Properties

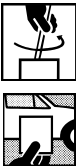









- Superior performance
- High gloss
- Quick and easy application

Substrates





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

Substrate Preparation

 Mild Steel	DTM: Sand with 240 Fre cut Primer: Concept 113 ZP Primer Sand with P600 wet or dry
Aluminium	Apply Concept 103 Etch Primer or Concept 110 Metal Etch or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
Galvanised Iron	Apply Concept 103 Etch Primer or Concept 110 Metal Etch or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
Glass Reinforced Plastics (GRP)	Apply Concept 103 Etch Primer or Concept 111 Universal Primer(HB) Sand with P600 wet or dry
Previously painted Surfaces (in sound condition)	Sand with P600 wet or dry
Special Notes: <ul style="list-style-type: none"> • All surfaces must be thoroughly sanded and cleaned with Concept Wax & Grease Remover prior to application. • Use white or light coloured primers under bright yellows, oranges and reds, if required. 	




Product Preparation					
	<ul style="list-style-type: none"> • Weigh the concentrates into the required base in accordance with the relevant colour formula. • A maximum of only 10% reduced concentrates is allowed and a maximum of 35% for all concentrates, in total. • Stir or shake for 10 minutes minimum. • Never leave the mixture stand for more than 30 minutes before mixing. 				
	Reducer	Up to 20% (v/v) Concept 804 Enamel Thinner, if required			
	Mixing Ratio 8:1 (by volume), if required	Concept 303 Auto Enamel Base		Concept 302 Enamel Hardener	
		8 parts		1 part	
	Matting (if required)	<p>Satin Finish: Add 30% of 399 Flattening Base. Matt Finish: Add 45% of 399 Flattening Base. Notes:</p> <ul style="list-style-type: none"> • Never add more than 50% of 399 Flattening Base. • 399 Flattening Base must be added before adding a hardener or thinner. • The addition of 399 Flattening Base will reduce coverage. 			
	Pot life @ 25°C (77°F)	N/A			
	Spray viscosity @ 25°C (77°F)	BSB 4 Cup	18-19 s		
		Ford 4 Cup	16-17 s		
   	Spray equipment	Gun type	Fluid tip	Spray pressure	Spray Distance
		Gravity Feed	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
		Suction feed	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
		HVLP	15-20 cm 6-8 inch	40-70 kPa 0.4-0.7 bar 6-10 psi	1.2-1.3 mm 0.047-0.051"
		Airless, Air Assisted, Electrostatic	Consult the manufacturer's instructions.		

Product Preparation cont.

	Number of coats	2-3	Apply one light coat followed by one or two even full coats. Avoid heavy wet coats.
	DFT Recommended	50 µm 2.0 mils	
	Flash off time @ 25°C (77°F)	5-10 min between coats	
	Drying	Air Dry @ 25°C (77°F)	Tack Free: 16-24 hours Recoatable with itself after any time.

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 Concept Paints cleaner such as Concept 035 Gunwash or 808 Multi-Thinner

Dry Film Properties

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

Gloss 60/20°	93/83
Water resistance	Very good
Petrol resistance	Very good
Durability	Very good

Technical Data Sheet

Product Data	
Theoretical Coverage	Approx. 6.0 m ² /L (245 ft ² /US gal) @ recommended DFT
Shelf Life	36 months in an unopened container at room temperature away from sunlight.

Product Packaging		
Product Code	Product Name	Package Size
INXXXXXXXXXXXX	Unicote 300 Tinters	1L, 4L
INXXXXXXXXXXXX	Unicote 300 Metallic Tinters	1L, 4L
INXXXXXXXXXXXX	Unicote 300 Reduced Tinters	1L
IN3999003000X	399 Flattening Base	1L, 4L
IN30390000004	303 Auto Enamel Base	4L
IN8049200000X	804 Enamel Thinner	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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