

Technical Data Sheet

Product Name	
Full Product Name	Unicote 302 Matt QD Enamel
Type of Product	1K fast drying alkyd enamel
Description	Concepts Unicote 302 Matt QD Enamel is a 1K fast drying industrial alkyd enamel. Characterised by its quick and easy application and Matt finish protection of steel, aluminium and glass reinforced plastics.

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	68.7	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	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
302 Matt QD Enamel Base	46.6	41.8	0.964	8.04	486.0	4.06
804 Enamel Thinner	0.0	0.0	0.802	6.69	802.0	6.69
302 Enamel Hardener	46.4	53.1	1.020	8.52	475.8	3.97
Retarder Thinner	0.0	0.0	0.884	7.38	884.0	7.38


Properties

- Superior performance when compared to other similar products
- Matt finish
- Quick and easy application

Substrates

- Mild Steel
- Aluminium
- Galvanised Iron
- Glass reinforced polyester (GRP & general types of fibreglass body parts)
- Previously painted substrates in sound condition

Substrate Preparation

 Mild Steel	DTM: Sand with 240 Frecut Primer: Concept Zinc Phosphate Primer Sand with P600 wet or dry
Aluminium	Apply Concept 103 Etch Primer or Concept Metal Etch or Concept Universal 4000 Primer Sand with P600 wet or dry
Galvanised Iron	Apply Concept 103 Etch Primer or Concept Metal Etch or Concept Universal 4000 Primer Sand with P600 wet or dry
Glass Reinforced Plastics (GRP)	Apply Concept 103 Etch Primer or Concept Universal 4000 Primer Sand with P600 wet or dry
Previously painted Surfaces (in sound condition)	Sand with P600 wet or dry

Special Notes:





- 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. • If required 302 Enamel Hardener maybe added to the mixed colour. 16 Parts Paint to 1 Part 302 Enamel Hardener • Stir or shake for a minimum of 10 minutes. • Never leave the mixture stand for more than 30 minutes before mixing. 			
Reducer	Up to 20% (v/v) Concept Enamel Thinner, if required 5-10% Concept Retarder Thinner, if required (to minimize blooming)			
Pot life @ 25°C (77°F)	N/A (3-4 hours if 302 Enamel Hardener is added)			
Spray viscosity @ 25°C (77°F)	BSB 4 Cup Ford 4 Cup	18-19 s 16-17 s		
Spray equipment 	Gun type	Fluid tip	Spray pressure	Spray Distance
	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
	HVLP	1.3-1.4 mm 0.051-0.055"	40-70 kPa 0.4-0.7 bar 6-10 psi	15-20 cm 6-8 inch
	Suction feed	1.2-1.3 mm 0.047-0.051"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
	Airless, Air Assisted, Electrostatic	Consult the manufacturer's instructions.		

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Product Preparation cont.

	Number of coats	3	Apply one light coat followed by two even full coats. Avoid heavy wet coats.
	DFT Recommended	50 µm 2.0 mils	
	Flash off time @ 25°C (77°F)	5 min between coats	
	Drying	Air Dry @ 25°C (77°F)	Dry to handle: 4 hours
<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.
	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°	10-15%
Water resistance	Good
Petrol resistance	Good
Durability	Good

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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 1	Product Code 2	Product Name	Package Size
G/341-G/355	3410341-3410355	Tinters	1L, 4L
G/381-G/382	3410381-3410382	Metallic Tinters	1L, 4L
G/371-G/375	3410371-3410375	Reduced Tinters	1L
IN30290010020	302900	302 Matt QD Enamel Base	20L
IN30292000.25	302920	302 Enamel Hardener	250mL
IN30292000.50	3029200	302 Enamel Hardener	500mL
IN80492000001	8049200	804 Enamel Thinner	1L
IN80492000004	8049200	804 Enamel Thinner	4L
IN80492000020	8049200	804 Enamel Thinner	20L
IN80492000060	8049200	804 Enamel Thinner	60L
AU81092000020	8109200	Retarder Thinner	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.

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