



TECHNICAL DATA SHEET

UNICOLOUR 300 SYSTEM

PRODUCT DESCRIPTION

Concept Paints Unicolour 300 System is a unique advanced Multi-Leg Industrial / Commercial System. It comprises a set of lead free concentrated tinters, which can be mixed with a range of different binders. It offers the flexibility to choose a binder for a specific end application, whilst offering a large number of colour formulas.

All colours have excellent coverage, with the capacity to be applied directly to a steel substrate.

PRODUCT AND ADDITIVES

- 13 Solid Lead Free Concentrates
- 1 Silver Concentrate
- 1 Flattening Base Concentrate
- Rapid Dry Enamel Base
- QD Enamel Base
- Auto Enamel Base
- 2K Polyurethane Base
- 2K Epoxy Urethane Base
- Acrylic Lacquer Base
- 2K Iso Free Base
- Vinyl Base
- Epoxy Base

MIXING

- Weigh the concentrates into the required base in accordance with the relevant colour formula.
- Stir or shake for 10 minutes minimum.
- Note: Never leave the mixture stand for more than 30 minutes before mixing.

FLATTENING

- Satin Finish: Add 30% of 399 Flattening Base.
- Matt Finish: Add 45% of 399 Flattening Base.
- Note: The addition of 399 Flattening Base must be added before adding a hardener or thinner.
- The addition of 399 Flattening Base will reduce coverage.
- Never add more than 50% of 399 Flattening Base.

CONCENTRATES

CONCENTRATE	VOLUME SOLIDS	DENSITY (KG/L)	VOC (g/L)
341 WHITE	70%	1.93	291
342 YELLOW OCHRE	65%	1.69	355
343 BLACK	60%	1.08	375
344 BRIGHT BLUE	50%	1.08	498
345 GREEN BLUE	57%	1.09	420
346 VIOLET	50%	1.05	480
347 BRIGHT RED	60%	1.14	388
348 MAGENTA	60%	1.07	401
349 BRIGHT YELLOW	60%	1.13	428
350 MID YELLOW	55%	1.11	454
351 SCARLET	60%	1.24	390
352 GREEN	52%	1.15	467
353 DARK RED OXIDE	65%	1.73	305
381 SILVER	42%	1.13	538
399 FLATTENING BASE	40%	1.10	574

PACKAGING: 4LT
SHELF LIFE: 12 months

301 RAPID DRY ENAMEL BASE

DESCRIPTION

This very fast drying industrial enamel, which is ideally suited for quick and easy low build protection and beautification of steel.

THINNING

- Up to 30% reduction with Concept Enamel Thinner may be required.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 19 Secs.
Solids By Volume (dependent on colour):	40% (White)
Coverage:	7 m ² /L

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept Zinc Phosphate Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply one light coat and two even full coats. Avoid heavy wet coats.
- Allow 5 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	40 Minutes
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	40 Micron
Gloss 60/20:	92/82
Water Resistance:	Good
Petrol Resistance:	Poor
Durability:	Fair

PACKAGING: 4LT, 20LT

SHELF LIFE: 12 months

302 QD ENAMEL BASE

DESCRIPTION

This is a fast drying equipment enamel with good gloss for quick and easy low build protection and beautification of steel.

THINNING

- Up to 20% reduction with Concept Enamel Thinner may be required.
- If required, add 1 part Concept Enamel Hardener to 16 parts of mixed colour.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 19 Secs.
Solids By Volume (dependent on colour):	40% (White)
Coverage:	6 m ² /L

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept Zinc Phosphate Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply one light coat and two even full coats. Avoid heavy wet coats.
- Allow 5 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	4 Hours
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RECOATING

- Recoatable with itself after 16 hours.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	50 Micron
Gloss 60/20:	92/84
Water Resistance:	Good
Petrol Resistance:	Good
Durability:	Good

PACKAGING: 4LT, 20LT

SHELF LIFE: 12 months

303 AUTO ENAMEL BASE

DESCRIPTION

This is a slower drying automotive enamel with very good flow and gloss, excellent metal protection and adhesion to most surfaces.

THINNING

- Up to 20% reduction with Concept Enamel Thinner may be required.
- If required, add 1 part Concept Enamel Hardener to 8 parts of mixed colour.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 19 Secs.
Solids By Volume (dependent on colour):	40% (White)
Coverage:	6 m ² /L

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept Zinc Phosphate Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply two to three even coats. Avoid heavy wet coats.
- Allow 5 to 10 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	16 - 24 Hours
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	50 Micron
Gloss 60/20:	93/83
Water Resistance:	Very Good
Petrol Resistance:	Very Good
Durability:	Very Good

PACKAGING: 4LT, 20LT

SHELF LIFE: 12 months

304 2K POLYURETHANE BASE

DESCRIPTION

This is a fast drying two pack acrylic urethane product that is suitable for most industrial and commercial applications. It has excellent flow, producing a high gloss film, with two pack durability.

MIXING

- 4 parts 304 2K Polyurethane Colour by volume.
- 1 part Concept 4:1 Hardener by volume.
- Up to 20% reduction with Concept 2K Thinner may be required.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 20 Secs.
Solids By Volume (dependent on colour):	43% (White)
Coverage:	8 m ² /L
Pot Life @ 25°C:	2 – 3 hours

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept HS 2K Primer or Concept 2K Epoxy Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces (except for Nitrocellulose or Enamels) can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply two to three even coats.
- Allow 5 to 10 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	3 Hours
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	50 Micron
Gloss 60/20:	94/87
Water Resistance:	Excellent
Petrol Resistance:	Excellent
Durability:	Excellent

PACKAGING: 4LT, 20LT
Hardener: 1LT

SHELF LIFE: 12 months (Hardener: 6 months)

305 2K EPOXY URETHANE BASE

DESCRIPTION

This is a fast drying two pack epoxy modified acrylic urethane product that is suitable for most industrial and commercial applications. It has excellent flow, producing a high gloss, chemical resistant film.

MIXING

- 4 parts 305 2K Epoxy Urethane Colour by volume.
- 1 part Concept 4:1 Hardener by volume.
- Up to 20% reduction with Concept 2K Thinner may be required.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 20 Secs.
Solids By Volume (dependent on colour):	43% (White)
Coverage:	8 m ² /L
Pot Life @ 25°C:	2 – 3 hours

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept HS 2K Primer or Concept 2K Epoxy Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces (except for Nitrocellulose or Enamels) can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply two to three even coats.
- Allow 5 to 10 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	3 Hours
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	50 Micron
Gloss 60/20:	94/85
Water Resistance:	Excellent
Petrol Resistance:	Excellent
Chemical Resistance:	Excellent
Durability:	Fair

PACKAGING: 4LT, 20LT
Hardener: 1LT

SHELF LIFE: 12 months (Hardener: 6 months)

306 ACRYLIC LACQUER BASE

DESCRIPTION

This thermoplastic acrylic product with its high gloss is ideally suited as a topcoat acrylic for automotive components. The use of special raw materials ensures excellent adhesion and long term durability.

THINNING

- Up to 150% reduction with Concept Acrylic Thinner may be required.
- If needed add 5 – 10% Retarder Thinner by volume to minimise blooming.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 19 Secs.
Solids By Volume (dependent on colour):	30% (White)
Coverage:	4 m ² /L

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept Acrylic Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces (except for Nitrocellulose or Enamels) can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply three to four even coats.
- Allow 5 flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	30 Minutes
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	50 Micron
Gloss 60/20:	92/81
Water Resistance:	Very Good
Petrol Resistance:	Poor
Durability:	Very Good

PACKAGING: 4LT, 20LT

SHELF LIFE: 12 months

307 2K ISO FREE BASE

DESCRIPTION

This is a fast drying two pack acrylic product free from any isocyanate curing agent. It is suitable for most industrial and commercial applications, providing a non yellowing high gloss finish with excellent flow and durability.

MIXING

- 4 parts 307 2K Iso Free Colour by volume.
- 1 part 307 Iso Free Hardener by volume.
- Up to 20% reduction with Concept 2K Thinner may be required.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 20 Secs.
Solids By Volume (dependent on colour):	42% (White)
Coverage:	8 m ² /L
Pot Life @ 25°C:	8 hours

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Not Applicable
Primer	Concept Iso Free 2K Primer sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces (except for Nitrocellulose or Enamels) can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply two to three even coats.
- Allow 5 to 10 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	3 Hours
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	50 Micron
Gloss 60/20:	92/85
Water Resistance:	Excellent
Petrol Resistance:	Excellent
Durability:	Excellent

PACKAGING: 4LT, 20LT
Hardener: 1LT

SHELF LIFE: 12 months

308 VINYL BASE

DESCRIPTION

This low gloss, quick drying product is ideally suited as a topcoat on any vinyl, simulated leather or metal surface. It has been designed to be very flexible with good durability, making it suitable for truck sidings.

THINNING

- Up to 20% reduction with Concept Multi-Thinner may be required.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	18 – 19 Secs.
Solids By Volume (dependent on colour):	20% (White)
Coverage:	5 m ² /L

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass	Vinyl, Simulated Leather
Direct to Metal	Sand with 240 Frecut	-	-
Primer	Concept Acrylic Primer, sanded with 600 W/D	Concept 1K Etch Primer or Concept Universal 4000 Primer, sanded with 600 W/D	Not Required
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces (except for Nitrocellulose or Enamels) can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply two to three even coats.
- Allow 5 flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	60 Minutes
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RECOATING

- Recoatable with itself after any time.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	40 Micron
Gloss 60:	15
Water Resistance:	Excellent
Petrol Resistance:	Fair
Durability:	Very Good

PACKAGING: 4LT, 20LT

SHELF LIFE: 12 months

309 2K EPOXY BASE

DESCRIPTION

This is a two pack epoxy polyamide cured product suitable for most industrial and commercial applications. It will produce a hard glossy film with excellent anti-corrosive, solvent resistant and abrasion resistant properties. It also has excellent adhesion to most substrates.

MIXING

- 4 parts 309 2K Epoxy Colour by volume.
- 1 part 309 Epoxy Hardener by volume.
- Up to 20% reduction with Concept 2K Thinner may be required.

WET PAINT PROPERTIES

Application Viscosity (B4 Cup) @ 25°C:	17 – 19 Secs.
Solids By Volume (dependent on colour):	46% (White)
Coverage:	4 m ² /L
Pot Life @ 25°C:	3 - 4 hours

SUITABLE SUBSTRATES

	Mild Steel	Aluminium, Gal Iron or Fibreglass
Direct to Metal	Sand with 240 Frecut	Sanding not required.
Primer	Concept EP41 Epoxy Primer sanded with 600 W/D	Concept 1K Etch Primer or Concept EP41 Epoxy Primer, sanded with 600 W/D
Clean Surface	Concept Wax & Grease Remover	Concept Wax & Grease Remover

- Previously painted surfaces (except for Nitrocellulose or Enamels) can also be coated. They must be sound, sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.
- It is recommended to use white or light coloured primers under bright yellows, oranges and reds.

SPRAY EQUIPMENT & PRESSURE

SPRAY EQUIPMENT	FLUID TIP	PRESSURE	SPRAY DISTANCE
Gravity Feed:	• 1.2 – 1.4 mm	• 350 – 450 kPa.	• 15 – 20 cm
Suction Feed:	• 1.5 – 2.0 mm	• 350 – 450 kPa.	• 15 – 20 cm

For other spray equipment such as airless, consult the manufacturers instructions for the correct set up.

APPLICATION

- Apply two to three even coats.
- Allow 5 to 10 minutes flash off between coats at 25°C.

Drying @ 25°C: (Tack Free)	4 Hours
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RECOATING

- Recoatable with itself after 7 hours minimum and 36 hours maximum. After this time the film should be sanded with 600 W/D and cleaned with Concept Wax & Grease Remover prior to application.

DRY FILM PROPERTIES (AFTER 7 DAYS DRYING)

Dry Film Thickness (Recommended):	80 - 100 Micron
Gloss 60/20:	95/85
Water Resistance:	Excellent
Petrol Resistance:	Excellent
Durability:	Will chalk and yellow on prolonged exposure.

PACKAGING: 4LT, 20LT (Hardener: 1LT)

SHELF LIFE: 12 months

The above information is reliable and accurate to the best of our knowledge at the time of preparation. Any recommendations or suggestions made are without warranty or guarantee. Users assume all responsibility since the conditions of use are beyond our control.

REVISED: 29 June 2010

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