



Technical Data Sheet

| Product Name | |
|-------------------|---|
| Full Product Name | Unicote 315 HS 2K PU |
| Type of Product | 2K acrylic urethane topcoat |
| Description | Concept Unicote 315 HS 2K PU is a 2K acrylic urethane topcoat, characterised by its high-volume solids , high build durability, excellent flow and gloss. It is suitable for large industrial and commercial applications where a high solids system is required. |

| 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 |
| 315 HS 2K PU mixed colour - | 70% | 58.8% | 1.15 | 8.92 | 478.7 | 3.86 |
| 241 PU Hardener (4:1) Normal | 33.9 | 39.9 | 0.986 | 8.23 | 593.1 | 4.95 |
| 241 PU Hardener (4:1) Fast | 33.6 | 40.2 | 0.968 | 8.08 | 578.3 | 4.83 |
| 241 PU Hardener (4:1) Slow | 35.4 | 40.9 | 1.004 | 8.38 | 593.8 | 4.96 |
| 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"> • Superior performance |
| <ul style="list-style-type: none"> • High gloss |
| <ul style="list-style-type: none"> • Quick and easy application |


Substrates

| |
|--|
| <ul style="list-style-type: none"> • Mild Steel |
| <ul style="list-style-type: none"> • Aluminium |
| <ul style="list-style-type: none"> • Galvanised Iron |
| <ul style="list-style-type: none"> • Glass Reinforced Plastics (GRP) |
| <ul style="list-style-type: none"> • Previously painted substrates in sound condition |







Technical Data Sheet

Substrate Preparation

| | | | |
|---|---|--|--|
|  Mild Steel | DTM: Sand with 240 Frecut Primer: <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 | | |
| Aluminium | <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 | | |
| Galvanised Iron | <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 | | |
| Glass Reinforced Plastics (GRP) | <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 | | |
| Previously painted Surfaces (in soundcondition) | 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. The above systems are examples only. For further information, please contact Concept Paints Technical Representative. | | | |

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 a minimum of 10 minutes Never leave the mixture stand for more than 30 minutes before mixing. | | |
|  Mixing Ratio 4:1 (by volume) | | Concept 315 HS 2K PU 4 parts | Concept 241 PU Hardener (4:1) 1 part |
|  Reducer | Up to 10% (v/v) Concept 2K Thinner, if required | | |



Technical Data Sheet




Product Preparation cont

| | | | | | |
|--|---|---|---|---|-----------------------|
| | Matting (if required) | Satin Finish: Add 30% of 399 Flattening Base. Matt Finish: Add 45% of 399 Flattening Base. Notes: <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) | 2-3 hours | | | |
| | Spray viscosity @ 25°C (77°F) | BSB 4 Cup Ford 4 Cup | 18-20 s 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 | 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 |
| | | Airless, Air Assisted, Electrostatic | Consult the manufacturer's instructions. | | |
| | Number of coats | 2-3 | Apply one light coat followed by one or two even full coats. Avoid heavy wet coats. | | |
| | DFT Recommended | 70 - 90 µm 2.0 mils | | | |
| | Flash off time @ 25°C (77°F) | 15 - 20 min between coats | | | |
| | Drying | Air Dry @ 25°C (77°F) | Tack Free: 4 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.



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| 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, <u>when compared to similar technology products.</u> | |
| Gloss 60/20° | 94/87 |
| Water resistance | Excellent |
| Petrol resistance | Excellent |
| Durability | Excellent |

| Product Data | |
|----------------------|--|
| Theoretical Coverage | Approx. 8.0 m ² /L (325 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 |
| G/399 | 3410399 | 399 Flattening Base | 1L, 4L |
| IN31590000020 | 3159000 | 315 HS 2K PU | 20L |
| IN24192000.25 | 2419200 | 241 PU Hardener (4:1) Normal | 250mL |
| IN24192000001 | 2419200 | 241 PU Hardener (4:1) Normal | 1L |
| IN24193000.25 | 2419300 | 241 PU Hardener (4:1) Fast | 250mL |
| IN24193000001 | 2419300 | 241 PU Hardener (4:1) Fast | 1L |
| IN24191000.25 | 2419100 | 241 PU Hardener (4:1) Slow | 250mL |
| IN24191000001 | 2419100 | 241 PU Hardener (4:1) Slow | 1L |
| IN83191000020 | 8319100 | 831 2K Thinner Slow | 20L |
| IN83192000020 | 8319200 | 831 2K Thinner | 20L |
| IN83193000020 | 8319300 | 831 2K Thinner Fast | 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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