

Technical Data Sheet

Product Name	
Full Product Name	144 ZP Epoxy Primer
Type of Product	2K Zinc Phosphate epoxy-polyamide primer
Description	Concepts 144 ZP Epoxy Primer is a 2K Wet On Wet, Epoxy Zinc Phosphate primer surfacer characterised by excellent adhesion to any metal substrate which is suitable for use under any Concept topcoat. It has very good anti-corrosive properties, with outstanding flexibility and chemical resistance.

Products						
Product Name	Volume Solids %	Weight Solids %	Density		VOC	
			g/mL	lbs/US gal	g/L	lbs/US gal
144 ZP Epoxy Primer	54.6	72.5	1.489	12.51	449.9	3.70
EP-41 Primer Hardener	31.5	38.9	0.938	7.83	572.7	4.78
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
<ul style="list-style-type: none"> • Excellent good anti-corrosive properties
<ul style="list-style-type: none"> • Outstanding flexibility
<ul style="list-style-type: none"> • Excellent adhesion and durability
<ul style="list-style-type: none"> • Wet on Wet application, so highly productive
<ul style="list-style-type: none"> • Excellent chemical resistance
<ul style="list-style-type: none"> • Suitable for use under all CONCEPT Paints Topcoats.

Substrates

- Mild Steel and Steel Alloy surfaces
- Stainless steel grade 316
- Aluminium, Zinalume, Zincaaneal
- Galvanised steel
- Glass reinforced polyester (GRP & general types of fibreglass body parts)
- Sound, cured and properly prepared existing surfaces

Substrate Preparation



All Substrates

All surfaces must be thoroughly sanded and cleaned with Concept Wax & Grease Remover prior to application. All metal surfaces must be sanded and cleaned with Concept Anti-static Cleaner. Lightly rusted surfaces must be treated with Concept 025 Rust Converter.

NOTE: Ensure complete and thorough removal of residual rust converter before applying this product.

Product Preparation

	Mixing Ratio 4:1 (by volume)		Concept 144 ZP Epoxy Primer	Concept EP-41 Hardener
			4 parts	1 part
	Reducer	10-20% (v/v) of Concept 2K Thinner, if required.		
	Pot life @ 25°C (77°F)	6 hours		
	Spray viscosity @ 25°C (77°F)	BSB 4 Cup Ford 4 Cup	17-19 s	15-17 s

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Product Preparation cont

 Spray equipment	Gun type	Fluid tip	Spray pressure	Spray Distance
	Gravity feed	2.0 mm 0.079"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
	Suction feed	2.0 mm 0.079"	200-240 kPa 2.0-2.4 bar 30-35 psi	15-20 cm 6-8 inch
	HVLP	1.5-1.8 mm 0.059-0.071"	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 coats	Apply one coat followed by two even full coats. Avoid heavy wet coats.	
	DFT Recommended	60-70 µm 1.6-2.0 mils		
	Flash off time @ 25°C (77°F)	5 min between coats		
	Drying	Air Dry @ 25°C (77°F)	4-6 hours	
		Low Bake @ 50°C (122°F)	30-40 min	
	Sanding	De-nibbing is possible after 4 hours		
	Re-coatability:	Minimum: 25 minutes at 25°C. with all Concept topcoats? Maximum: 24 hours hours at 25°C. with all Concept topcoats?		

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.
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	Surface temperature must always be a minimum of 3°C (5°F) above dew point.
NOTE:	Ensure the complete removal of any residue of Rust Converter before applying this primer.

Equipment Cleaning

Use recommended Concept Paints 035 Gunwash

Dry Film Properties

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

Hardness	Excellent
Flexibility	Excellent
Chemical and water resistance	Excellent
Corrosion protection	Excellent
Sanding	Excellent

Product Data

Colour	Grey and White
Theoretical Coverage	Approx. 8 m ² /L (325 ft ² /US gal) @ recommended DFT
Shelf Life	36 months in an unopened container at room temperature away from sunlight.

Safety

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For automotive and industrial use only by professional painters. Not recommended for sale to, or use by the public. Before using it, read and follow all label and Safety Data Sheet (SDS) precautions. If mixed with other components, the mixture will have hazards to 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.

Product Packaging

Product Code	Product Name	Package Size
IN1446200000X	144 ZP Epoxy Primer Grey	4L, 16L,
IN1446000000X	144 ZP Epoxy Primer White	4L, 16L
AU1419200000X	EP-41 Hardener	1L
AU8319200000X	2K Thinner	4L, 20L
AU8319300000X	2K Thinner Fast	4L, 20L

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This Technical Data Sheet supersedes all previous issues.

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