

#### **Technical Data Sheet**

Product Group	Epoxy primer		
Characteristics Product Information	- This chemically cured, water reducible epoxy primer is designed to provide corrosion and chemical resistance over aluminum substrates. It may be topcoated with epoxy or polyurethane.		
Curing Solution	Curing Solution: ECW-104 Thinner: DI water		
Specifications Qualified Product List	EADS (CASA) Lockheed Martin US Military	Z-12.141 G37.5422 MIL-PRF-85582 Ty I, CI C2	
ШШ	For most recent up-date or missing specifications please check the qualified product list (QPL) on www.akzonobel.com/aerospace		
Surface Conditions Cleaning	<ul> <li>Surface pretreatment is an essential part of the painting process</li> <li>Prepare surface per MIL-PRF-85582</li> </ul>		

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1 East Water Street, Waukegan, IL 60085, USA - Phone (847) 623 4200, Fax (847) 625 3200

Rijksstraatweg 31, 2171 AJ Sassenheim, The Netherlands - Phone (31) 71 308 2905, Fax (31) 71 308 2056



#### Instruction for Use

	Mixing Ratio	3 parts	Base 10PW20-4
·_	(volume)	1 part	Curing Solution ECW-104
$\Box \cdot \Box$			Thinner DI water (15% by volume maximum)
		<ul> <li>Stir or Shake till all pign curing solution.</li> <li>Pour the quart of ECW- 10PW20-4 base. Place Check viscosity. If nece additions of 5% by volu DO NOT add more than induction time of 20 min for spray application.</li> </ul>	nent is uniformly dispersed before adding 104 curing solution into the gallon can of on shaker for two minutes, then remove. essary, further reduce the mixture with DI water me of mixed coating up to a maximum of 15%. In this amount. Allow the reduced material an inutes before using. The material is now ready
	Induction Time	20 minutes	
		37 - 60 seconds (reduced 10	0% by volume with DI water) ISO-Cup 4
	Initial Spraying	20 - 26 seconds(reduced 10	% by volume with DI water) Zann-Cup Signature
	VISCOSITY	#2 18 - 25 seconds (reduced 1)	0% by volume with DI water) #4 Ford
	(23*6/11*12)		$\frac{1}{2}$ by volume with DI water) $\frac{1}{2}$ T of a
шЯ	Note	The Zahn cup and ISO cup only. The quality control rec viscosity. Viscosity measurements are used as quality control para certification documentation	data are provided as application guidelines quierment per MIL-PRF-85582 is the Ford cup e provided as guidelines only and are not to be meters. Certified information is provided by available on request.
	Pot life (25°C/77°F)	4 hours	
<b>1</b> μm	Dry Film Thickness (DFT)	15 – 25 micron (μm) 0.6 – 1.0 mils	
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#### Application **Recommendations**

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Conditions	Temperature: Relative Humidity:	15 – 35°C 59 – 95°F 35 – 75%		
Note	The quality of the appli equipment chosen and application area. When recommended that test equipment settings to b appearance of the coat	The quality of the application of all coatings will be influenced by the spray equipment chosen and the temperature, humidity, and air flow of the paint application area. When applying the product for the first time, it is recommended that test panels be prepared in order to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.		
Equipment	Air HVLP	1.2 – 1.4 mm nozzle orifice 1.2 – 1.4 mm nozzle orifice		
Number of Coats	Spray a single uniform	Spray a single uniform wet coat to recommended dry film thickness.		
Cleaning of Equipment	Flush equipment with water first. Then use TR-19 to clean residue from equipment. If material dries on equipment, omit water flush and use TR-19 only.			

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#### **Physical Properties**

Drying Times (25 +/- 2°C / 77 +/- 2°F, 55 +/- 5% RH)	Full cure Dry to topcoat Dry hard Accelerated cure	14 days (90% cure in 7 days) 2 hours 6 hours	
	Dry to handle	Allow to flash dry at 55°-80°F (13°-27°C) for a minimum of one hour, then 30 – 60 minutes at 120°F – 140°F (49°C – 60°C)	
	Full cure	Allow to flash dry at 55°-80°F (13°-27°C) for a minimum of one hour before force curing at 145°-155°F (63°-68°C) for 24 hours.	
M <sup>2</sup> Theoretical Coverage	20.3 m <sup>2</sup> per liter ready to app 826 ft <sup>2</sup> per US gallon ready to	bly at 18 $\mu$ m dry film thickness o apply at 0.7 mil dry film thickness	
Dry Film Weight	39.8 g/m²/25 micron 0.008 lbs/ft²/1.0 mil		
VOlatile Organic Compounds	Max 340 g/l admixed Max. 2.8 lb/gal		
Gloss (60°)	<10 GU		
Color	Light green		
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Flash-point	10PW20-4 ECW-104	93°C / 200°F 23°C / 74°F		
Storage	Store the product dry 100°F per AkzoNobe original unopened co specification requirer information.	Store the product dry and at a temperature between 5 and 38°C / 40 and 100°F per AkzoNobel Aerospace Coatings specification. Store in the original unopened containers. Storage temperature may vary per OEM specification requirements. Refer to container label for specific storage life information.		
Shelf life 5 - 38°C (40 - 100°F)	12 months per Akzol Shelf life may vary du container label for sp	Nobel Aerospace Coatings commercial specification. Le to OEM specification requirements. Refer to ecific shelf life information.		
Safety Precautions	Comply with all local Check the Material S products carefully be request.	Comply with all local safety, disposal and transportation regulations. Check the Material Safety Data Sheet (MSDS) and label of the individual products carefully before using the products. The MSDS's are available on request.		

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**IMPORTANT NOTE** The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given is subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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AkzoNobel Aerospace Coa	atings 10PW20	-4 Water	Reducible	e Epoxy Primer	AkzoNobel
		Base: 10PW20-4 3 parts	4 E	Curing Solution: ECW-104 part	Thinner: Di-Water 15% by Volume Max
<b>□¬s</b> −	At 77°F (25°C): Mix Viscosity:       37 – 60 seconds (reduced 10% by volume with DI water) ISO-Cup 4         20 – 26 seconds(reduced 10% by volume with DI water) Zahn-Cup Signature #2         18 – 25 seconds (reduced 10% by volume with DI water) #4 Ford         Pot life:       4 Hours         Induction Time:       20 minutes				
	Coats needed: Dry film thickness:	Spray a sin 0.6 – 1.0 mi	gle uniform v ils (15 – 25 mi	wet coat to recomm icrons)	ended dry film thickness.
	At 75 to 80°F & 50% RH F [ [ [ (	<sup>:</sup> ull cure: )ry to topcoa )ry hard: )lean Up:	at:	14 Days 2 Hours 6 Hours Use TR-19	
	Type equipment HVLP	<b>Tip Size</b> 1.2-1.4 mm	Gun Air Pres. 8-25 psi	Pot Air Pres. Varies w/pot size	Other Iwata, Sata, BinksMach 1

We have taken reasonable care in preparing the Mixing Guide and in collecting and preparing material for inclusion in it but do not represent or warrant that it is free from error or that the information content is complete or accurate. The information is advisory only and the use of the Material is solely at your own risk.