

10PW20-4 Water Reducible Epoxy Primer

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.

Components



Curing Solution
Thinner

Curing Solution: ECW-104
Thinner: DI water

Specifications



Qualified
Product List

EADS (CASA)	Z-12.141
Lockheed Martin	G37.5422
US Military	MIL-PRF-85582 Ty I, CI C2

The complete Akzo Nobel Aerospace Coatings qualified product list (QPL) can be found at: www.anac.com

Surface Conditions

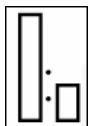


Cleaning

- Surface pretreatment is an essential part of the painting process
- Prepare surface per MIL-PRF-85582.

Instruction for Use

- Stir or Shake till all pigment is uniformly dispersed before adding hardener / curing solution.
- Pour the quart of ECW-104 curing solution into the gallon can of 10PW20-4 base. Place on shaker for two minutes, then remove. Check viscosity. If necessary, further reduce the mixture with DI water additions of 5% by volume of mixed coating up to a maximum of 15%. DO NOT add more than this amount. Allow the reduced material an induction time of 20 minutes before using. The material is now ready for spray application.



Mixing Ratio
(volume)

3 parts	Base 10PW20-4
1 part	Curing Solution ECW-104
	Thinner DI water (15% by volume maximum)



Induction Time

20 minutes

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Initial Spraying
Viscosity
(21°C/70°F)

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

The Zahn cup and ISO cup data are provided as application guidelines only. The quality control requirement per MIL-PRF-85582 is the Ford cup viscosity.



Pot Life
(25°C/77°F)

4 hours at 77°F (25°C)



Dry Film
Thickness
(DFT)

15 – 25 micron (µm)
0.6 – 1.0 mils

Application Recommendations

Standard suction or pressure spray equipment



Conditions

Temperature: 15 – 35°C
59 – 95°F
Relative Humidity: 35 – 75%



Equipment

Air 1.2 – 1.4 mm nozzle orifice
HVLP 1.2 – 1.4 mm nozzle orifice



Number of
Coats

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.



Note

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.

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Physical Properties



Drying Times
(25°C/77°F)

Full cure 14 days (90% cure in 7 days)
 Dry to topcoat 2 hours
 Dry hard 6 hours
 Force 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.



Theoretical Coverage

20.3 m² per liter ready to apply at 18 µm dry film thickness
 826 ft² per US gallon ready to 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



Flash-point

10PW20-4 93°C / 200°F
 ECW-104 23°C / 74°F



Storage

Store the product dry and at a temperature between 5 and 25°C / 41 and 77°F. Stored in the original unopened containers. Periodical short time exposure (max. 48 hrs at a time) to higher temperatures (max. 40°C / 104°F) will not negatively influence the shelf life of the products.

Shelf life
 5 - 38°C
 (41 - 77°F)

12 months per ANAC commercial specification
 Shelf life may vary due to OEM specification requirements

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Safety Precautions

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 MSDSs are available on request.

FOR PROFESSIONAL USE ONLY

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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