

PRODUCT INFORMATION DATA SHEET

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44GN049 (44-GN-49) Water Reducible Low IR Epoxy Primer

Product Information

MIL-PRF-85582E TYPE II CLASS C2 Specification Description Chromated, water reducible, chemically cured, low

IR, two-component epoxy polyamide primer

Features Corrosion inhibiting

> Chemical and Solvent Resistant Resistant to immersion in Hydraulic Fluids, Lubricating Oils,

> > Phosphate Ester Based Hydraulic Fluids and Distilled water

Color Dark Green

Reducer Distilled or deionized water (≈150% reduction)

2 parts 44GN049 base by volume to Mix Ratio

1 part 44GN049CAT catalyst by volume to 4.5 parts water by volume (150% ± 10% reduction)

Kit Size	44GN049base	44GN049CAT	D.I. Water
GK	85 oz / 2.51 L	43 oz / 1.27 L	192 oz / 5.68 L
QK	21 oz / 621 mL	11 oz/ 325 mL	48 oz / 1.42 L

Pot Life 4 hours at 73° ± 5°F

20 ± 2 seconds # 2 EZ Zahn Cup Viscosity initial:

16 ± 2 seconds # 4 Ford Cup ≤ 8-second rise (typical)

Induction Time none required

Application Thickness 0.6 - 0.9 mils dry film thickness

Pot life:

Storage Stability (Per MIL-PRF-85582)

Storage

1 year when stored between 35 - 115°F

Recommended

Store indoors between 70 - 90°F in original unopened containers.

Forced Dry Schedule

For dry to stack conditions only. Allow a minimum of 15 minutes flash off time at ambient temperatures* prior to exposing painted parts to high temperatures. Complete testing should be done prior to use. Below are suggested starting points. Other variables may affect these cure schedules

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	Temperature	Time		
	120°F	45 minutes		
	140°F	30 minutes		
	160°F	20 minutes		
	180°F	15 minutes		

Ambient temperatures are defined as 70° ± 10°F and 50% ± 10% Relative Humidity.

Mixing and Thinning

GK & QK: Stir or shake the base component to ensure any pigment, which may have settled on the bottom of the can, has been fully incorporated into the base. Do not stir or shake the base component longer than 5 minutes. Slowly add the one volume of catalyst to two volumes base component. Mix by hand stirring, paint shaker or mechanical mixing to ensure the base/catalyst mixture is homogeneous. DO NOT SHAKE OR MECHANICALLY MIX MATERIAL FOR LONGER **THAN 5 MINUTES.** To the catalyzed primer, add approx. 41/2 parts by volume (150%) of distilled or deionized water. Slowly add the water in one-third increments, mixing thoroughly after each addition, until fully incorporated and homogeneous. Be sure to scrape the sides and bottom of the container. Constant agitation of the material during spray application is recommended. The water is used to adjust the viscosity. Volumes of water needed may vary between 125 – 175%.

Application Equipment

Conventional, Air, Air Assisted Airless, HVLP, Electrostatic spray equipment may be used to apply this material. For your application, please contact the equipment manufacturer for more specific information on Conventional, HVLP or Electrostatic spray applications, and

Characteristics (At 150% Reduction)*

Characteristics	Base	Catalyst	Admixed
Weight per gallon (lbs)	10.87	9.34	9.14
% Solids by weight	75.1%	69.3%	33.3%
% Solids by volume	60.0%	67.2%	25.0%
Coatings VOC (g/L)	320	344	328
Coatings VOC (lbs/gal)	2.67	2.87	2.73
Material VOC (g/L)	320	344	131
Material VOC (lbs/gal)	2.67	2.87	1.09

Dry Film Density* 1.46 g/cc Theoretical Coverage** per gallon as applied: 400 sq. ft. Theoretical Coverage per gallon kit as applied: 1000 sq. ft. Theoretical Dry Film Weight (per gallon kit as applied):

3.45 g/sq. ft. (0.00761-lbs/sq. ft.)

- Characteristics are calculated based on product formulas and ingredient characteristics as reported to Deft, Incorporated by raw material suppliers. Values reported are not pecification values. They are presented for general information only.
- Dry film density and theoretical coverage based on proper application of coating at 1 mil dry film thickness and 100% transfer efficiency.

recommendations on hose diameter and lengths.

This material is available in the follow kit sizes:

Kit size	Approx. Yield (Mixed)	Approx. Shipping Weight	
GK	2.5 gallons	12.4 lbs (5.63 kg)	
QK	2.5 quarts	3.4 lbs (1.54 kg)	

Packaging, Yields, Shipping Weight

Additional kit sizes are available upon request.

Dry Times

Tack Free 1 hours, min **Dry Hard** 6 hours, max Dry to tape 6 hours, min

Note: Dry times above were established at room (ambient) temperatures, 75° ± 5°F and 50% ± 10% Relative Humidity.

Equipment Cleanup

Water will clean approximately 95% of liquid primer remaining on equipment. Follow with Deft's IS-248 Cleaning Solvent for Water Reducible Primer to remove any residual primer from equipment. Once material has cured, use an approved chemical paint removal system to strip primer from parts and equipment.

Safety

Refer to the product label or Material Safety Data Sheet (MSDS) for each component for Personal Protective Equipment and Proper Handling.

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