NAPCO POLY-GLASS® 320 Low VOC

- A high performance coating that is applied with greater ease in less time
- A durable coating that offers tough chemical resistance

Features

- Quick Dry; In the Mega-fast version it is less than one hour
- Easy to apply with excellent flow and leveling
- Resistant to staining with common household chemicals
- Excellent gloss and Color retention
- 30% lower VOC content
- Sand after 20 minutes with use of a heat lamp
- Buff after 20 minutes with use of a heat lamp
- Not an ozone depletor
- Greener
- Better for the environment
- Low odor

May Be Applied To:

- Porcelain
- Ceramic
- Acrylic
- Fiberglass
- Plastic
- PVC
- Laminate Surfaces
- Marble
- Granite
- Metal
- Concrete
- Wood

NAPCO

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Summary

NAPCO Poly-Glass ® 320 Low VOC has very good early hardness and water resistance, as well as excellent performance in dry to tape and cross-hatch adhesion tests. The product is both strong and durable without sacrificing flexibility. It has beautiful initial gloss with perfect gloss retention in Q.U.V. weather testing. The solvent has a long pot-life and is easily stored under normal conditions. With low Volatile Organic Compounds (VOC), the NAPCO Poly-Glass® 320 Low VOC is safe, reliable,

Recommended Surface Preparation

Porcelain & Enamel	Remove all caulk, clean surface with NAPCO Poly cleaner and rinse with cool water, dry the surface and apply etch, after 10 - 15 min rinse etch down the drain with cool water, wet sand the etch residue with 80 grit paper, apply 2 light coats of Low VOC Epoxy Primer.
Ceramic	Remove all caulk, clean surface with NAPCO poly cleaner, rinse with cool water, dry surface, apply NAPCO Poly Bond Primer
Fiberglass & Acrylic	Remove all caulk, clean with NAPCO Poly Cleaner, rinse with cool water, wet sand horizontal surfaces with 120 sand paper and vertical surfaces with 220, rinse with cool water and dry entire surface.
Wood	Remove caulk, clean with TSP or liquid dishwashing liquid and a 3M scrub pad to remove and kitchen grease, rinse with cool water, wet sand with 220,rince with cool water and dry. Apply NAPCO Low VOC primer.
Metal	Remove all caulk, clean with NAPCO

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Generic Type	Light Fast Aliphatic Urethane
Gloss	85-90% on a 60-degree head; 18% for Low Gloss Resin
Solids	69% +/- 1% by Weight; 55% +/- 1% by Volume; 41% at Spray Viscosity
Weight/Gallon	10.75 +/- 0.1 lbs.
Pencil Hardness	4H – Slight Mark, No Film Break
Theoretical Coverage	864 sq. ft. per 1 mil Dry Coating (catalyzed & reduced resin)
Flash Point	39.2˚F
Viscosity-Reduced	20-24 Seconds #2 Zahn Cup @ 2 to 1 to 1
Spray Viscosity	18-22 seconds #2 Zahn Cup, depending on colors.
Application	Apply with HVLP spray system, air brush, or natural bristle brush
Application Thickness	2.5 to 3.5 mils dry (1 tack coat + 2 wet coats)
Mixing Instructions	2 parts Poly-Glass base to 1 part Poly-Glass catalyst to 1 part Poly-Glass thinner by volume
Drying Schedule	Consult resin label
Pot Life	Approximately 2 hours for mixed, catalyzed, and reduced material
Storage Stability	1-year minimum when stored between 55-100˚F
Equipment Cleanup	NAPCO Overspray Gun Cleaner
Safety	Refer to Material Data Safety Sheets (MSDS) for proper equipment and handling

Reagent Concentrated Immersion Tests

Acids

Sulphuric 5%	No Effect – 3 ½ years
Phosphoric 50%	No Effect-3 ½ years
Hydrochloric 10%	Slight Loss of Gloss- 3 ½ years
Hydrochloric 15%	Slight Loss of Gloss- 3 ½ years
Hydrochloric 28%	Failed - 48 hours
Hydrochloric 38%	Failed - 18 hours
Acetic 5%	Failed - 40 days
Acetic 10%	Failed - 14 days
Acetic 50%	Failed - 10 days
Sodium Hydroxide	No Test Data Available
Ammonia	No Test Data Available

Miscellaneous

Detergent 5%	No Effect – 3 ½ years
Detergent 5%	No Effect – 7 hours at 100°C
Distilled Water	No Effect – 1,000 hours
100% Humidity	Slight Blistering – 1,000 hours @ 100°F

Dust Free

Mega-fast	8 to 10 mins
Quick Dry	10 to 12 mins
Regular Dry	12 to 14 mins

Water Resistance

Mega-fast	2 hrs
Quick Dry	24 hrs
Regular Dry	48hrs

Sandable

Mega-fast	2 hrs (20 minutes with use of heat lamp)
Quick Dry	24hrs
Regular Dry	48hrs

Accelerated Weathering Tests

Q.U.V 60 Gloss	Initial Gloss- 85% 1000 Hours- Final Gloss 85%
Q.U.V	Resistance to change @ 1000 Hours: very high

Miscellaneous Tests

Cross Hatch Adhesion	No Failures (4 to 5A)
MEK Resistance	25 Double Rub - Pass

Bonderite *1000 Treated, Cold Rolled Steel Tests

Acrylic Drop Flex	Pass 12lbs. 30X weekly for 90 days
Flexibility	¼ in..Mandel Passes-No cracks
Direct Impact	Pass 60in lbs. at 1-mil dry film

Substrate Bonderite *1000 24-Hour Spot Tests

Xylol	Slight Ring Mark
Cellusolve Acetate	Slight Ring Mark – No Softening
Cyclohexanone	Moderate Ring Mark – Slight Softening
5% Sulfuric Acids	No effect
30% Sulfuric Acids	Film Slightly Dulled
50% Sulfuric Acids	Film Dulled
10% Hydrochloric	No Effect
1% Iodine	Moderate Stain
5% Potassium Permanganate	Moderate Stain
409	No Effect
Ajax Liquid Soap w/ lemon	No Effect
Black hair dye	Stain
Catsup	No Effect
CLR	No Effect
Clorox Bleach	No Effect
Dow Scrubbing Bubbles	No Effect
Drano	No Effect
Hair Color	Moderate Stain
Hydrogen Peroxide	No Effect
Laundry Detergent	No Effect
Lipstick	No Effect
Lysol Disinfectant	No Effect
Marker Pen	No Effect
Mustard	Very Slight Stain
Soft Scrub	No Effect
Tilex	No Effect
Windex w/ Ammonia	No Effect
Nail Polis Remover/ Acetone	No Effect

Konig Hardness Test

Unexposed	120
Exposed	73
Post 24 Hour Recovery Period	123

Technical Performance Report Evonik Industries 10/17/08