

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

- Fast drying – “shower in just 2 hours” with the Mega-Fast version
- 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
- Greener /Healthier –Low toxicity/ lower VOC content
- Better for the environment - Does not deplete the ozone layer
- Low odor

May Be Applied To:

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

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, and fast curing.

Recommended Surface Preparation

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|----------------------|--|
| 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,rinse 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 Polish Remover/ Acetone | No Effect |

Konig Hardness Test

| | |
|------------------------------|-----|
| Unexposed | 120 |
| Exposed | 73 |
| Post 24 Hour Recovery Period | 123 |