

## Non-Lift Alkyd Primer

# NLP Series Primers

NLP-495 Non-Lift Primer – Gray  
NLP-908 Non-Lift Primer – Black  
NLP-951 Non-Lift Primer – White

NLP Primers are non-lifting, fast drying solvent borne primers with excellent durability and chemical resistance. These single component primers are recommended for industrial use on all metal surfaces including blast surfaces.

This primer series can be applied via airless or air-assisted airless equipment and provides a long recoat window (up to six months). This series is lead and chrome free.

### Features and Benefits:

- One component, easy-to-spray
- Can be applied on blasted surfaces
- Fast dry capability
- Long recoat window (up to six months)

### Associated Products:

- NLP-495 Non-Lift Primer – Gray
- NLP-908 Non-Lift Primer – Black
- NLP-951 Non-Lift Primer – White

**Physical Constants:** *All values are theoretical, depend on color and are Ready-to-Spray. Actual values could vary slightly due to manufacturing variability.*

	NLP-495 Gray	NLP-908 Black	NLP-951 White
Weight per gallon (US)	9.99 lbs/gal	9.82 lbs/gal	10.36 lbs/gal
Percent solids (by weight)	56.7%	54.5%	56.4%
Percent solids (by volume)	39.4%	37.5%	36.9%
VOC	4.32 lbs/gal	4.47 lbs/gal	4.52 lbs/gal
HAPs	≤ 3.8 lbs/gal	≤ 4.2 lbs/gal	≤ 4.2 lbs/gal
Photo-chemically reactive	Yes	Yes	Yes
Flashpoint:			
NLP-495 =	68°F (20°C)		
NLP-908 =	68°F (20°C)		
NLP-951 =	68°F (20°C)		

### Directions for Use

#### Substrate Preparation:

The surface to be coated must be sanded and free of all contamination (including dust, dirt, oil, grease, and oxidation). A chemical treatment (or conversion coating) will improve adhesion and performance properties of the finished coat. Variability can occur with substrates, preparation, application method or environment. We recommend that adhesion and system compatibility be checked prior to full application.



#### Metal Direct to Substrate

Cold Rolled Steel	Excellent
Hot Rolled Steel	Excellent
Galvaneal	Not Recommended
Galvanized	Not Recommended
Aluminum	Fair
Plastic / Fiberglass	Not Recommended

*Note: For acceptable compatibility between this primer and CPC topcoats please see the CPC Primer/Topcoat compatibility chart (CPCTB01).*

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## Directions for Use (continued)

### Mix Directions:



Mix Directions	Single component product, stir thoroughly before and occasionally during use. No induction needed. Open just prior to use and be sure to seal container tightly in-between uses.
Thinning:	Thinning is not required; however small amounts (10% or less) of Q80 (Xylene) may be added.
Blend Ratios:	N/A - Single component product
Pot Life @ 77°F (25°C):	N/A
Spray Viscosity Range:	# 2 Zahn = 30 – 40 seconds
Unopened Shelf Life (each component):	Gallons & Pails = 2 Years Drums = 1 Year

### Application Equipment:



Conventional/Compliant with or without Pressure Pot:	1.3 – 1.8" tip, 45 – 60 psi at the gun
HVLP (with or without pressure pot):	1.3 – 1.6" tip, 10 psi at cap or per manufacturer's recommendation
Airless:	1400 – 2000 psi, .009 - .013" tip
Air-Assisted Airless:	1000 – 1500 psi, 30 – 40 psi atomizing air, .009 - .013" tip
Brush or Roll:	Not Recommended
Electrostatic:	No recommendation

### Application:



Apply:	Apply only when air, product and surface temperature are above 40°F (4°C) and when surface temperature is at least 5°F (3°C) above the dewpoint. Drying times listed may vary depending on temperature, humidity, and air movement. Excess film thickness may lead to air entrapment or pin holing in the film.
Recommended Wet Film Build:	3.8 – 6.8 mils
Recommended Dry Film Build:	1.5 – 2.5 mils
Square Foot Coverage @ 1mil no loss:	592 – 632 sq. ft.

### Dry Times:



Air Dry @ 77°F (25°C) 50% RH:	
To Touch:	10 – 20 minutes
To Handle:	25 – 45 minutes
Recoat:	After 20 minutes but before 6 months
Force Dry:	20 minutes at 160°F (71°C) after 10 minute flash

*\* Paint film is not fully cured for 7 days. Drying time listed may vary, depending upon film build, color selection, temperature, humidity and degree of air movement.*

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## Technical Data\*

### Performance Properties:

*System:*  
**BONDERITE 1000**  
**NLP-495**

Test	ASTM Method	Result NLP-Series
Pencil Hardness	D3363	HB
Impact (Forward/Reverse)	D2794	70 / 5 inch · lbs
Adhesion	D3359	5B
Gravelometer	D3170	4
In Service Temperature Limit**		180°F (82°C)

*\*\*As you approach 150°F (65°C) depending on the pigmentation, the color may change, but the film's integrity will be maintained up to 180°F (82°C).*

### Weather Resistance:

*Salt Spray and  
Humidity System:*  
**Bonderite 1000**  
**NLP-495**  
**ALK-FP White**

	ASTM Method	Result NLP-Series
<b>Salt Spray – 100 hours</b>	B117	
Corrosion Creep	D1654	8A
Scribe Blisters	D714	None
Face Blisters	D714	None
<b>Humidity – 100 hours</b>	D2247	
5 Minute Recovery Adhesion	D3359	5B
1 Hour Recovery Adhesion	D3359	3B
24 Hour Recovery Adhesion	D3359	4B

All tests results assume proper cure and preparation of test substrates. Unless otherwise stated, all results were obtained spraying product direct to metal on *Bonderite 1000*.

\*The application and performance property data above are believed to be reliable based on laboratory findings. It is for the buyer to satisfy itself on the suitability of the product for its particular use. Variation in environment, procedures of use, or extrapolation of data may cause unsatisfactory results.

### Miscellaneous

Not to be used on zinc substrates.

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### Safety:



These materials are designed for application only by professional, trained personnel, using proper equipment under controlled conditions and are not intended for sale to the general public.

Safe application of paints and coatings requires knowledge of equipment, materials and individual training. Directions and precautionary information on both equipment and products should be carefully read and strictly observed for personal safety and property protection. Consideration must be given to eliminate conditions, which may generate hazardous atmospheres during spray application or subject operators or bystanders to injury or illness.

Special precautions must be taken when utilizing spray equipment, particularly airless equipment. High-pressure injection of coatings into the skin by airless equipment may cause serious injury requiring immediate medical attention at a hospital. Treatment advice may also be obtained from Poison Centers.

Air quality should be maintained with adequate ventilation; applicators can achieve additional protection by wearing respirators and other protective garments such as gloves and overalls. In all cases, wear protective eye equipment. During the application of all coatings materials, all flames, welding and smoking must be prohibited. Explosion proof equipment must be used when coating these materials in confined areas.

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### PRECAUTIONARY INFORMATION

Before using the products listed herein, carefully read each product label and follow directions for its use. Please read and observe all warnings and precautionary information on all product labels. Prevent all contact with skin and eyes and breathing of vapors and spray mist. Repeated inhalation of high vapor concentrations may cause a series of progressive effects including irritation of the respiratory system, permanent brain and nervous system damage and possible unconsciousness and death in poorly ventilated areas. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

KEEP OUT OF THE REACH OF CHILDREN

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### MEDICAL RESPONSE

Emergency Medical or Spill Control Information (412) 434-4515; CANADA (514) 645-1320 and in MEXICO 01-800-00-21-400. Have label information available.



**Safety Data Sheets (SDS) for the PPG products mentioned in this publication are available through [www.ppgcommercialcoatings.com](http://www.ppgcommercialcoatings.com) (Safety, SDS Search) or your PPG Distributor.**

For additional information regarding this product, see the SDS and LABEL information.



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