

3.5 VOC Non-Lift Alkyd Primer

NLP Series Primers

NLP-435 Non-Lift Primer (3.5 VOC) – Gray
 NLP-235 Non-Lift Primer (3.5 VOC) – Tan*
 NLP-901 Non-Lift Primer (3.5 VOC) – Black*
 NLP-X35 Non-Lift Primer (3.5 VOC) – Tintable Base

* NLP-235 and NLP-901 are special order only

NLP Primers are non-lifting, fast drying solvent borne primers with excellent durability and chemical resistance. These single component primers are at <3.5 VOC and are recommended for industrial use on all non-zinc metal including blast surfaces.

This primer can be applied via airless or air-assisted airless equipment and does not have a maximum recoat or topcoat window to observe. These primers are also lead and chrome free.

Features and Benefits:

- Fast dry 1-component alkyd primer
- 3.5 VOC environmentally compliant
- Airless or Air-assisted airless capable
- No maximum recoat or topcoat window to observe
- Can be applied over blasted surfaces

Associated Products:

- NLP-435 Non-Lift Primer (3.5 VOC) – Gray
- NLP-235 Non-Lift Primer (3.5 VOC) – Tan
- NLP-901 Non-Lift Primer (3.5 VOC) – Black
- NLP-X35 Non-Lift Primer (3.5 VOC) Tintable*

*Refer to the CPCTB22 Alkyd Primer Tinting Guide

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

	NLP-435	NLP-235	NLP-901	NLP-X35
Percent solids (by weight)	70.4%	71.1%	70.4%	69.2-73.5%
Percent solids (by volume)	53.3%	53.1%	54.1%	54.3-57.1%
HAPs	Non-HAP*	Non-HAP*	< 0.30 lbs/gal	Non-HAP*
Photo-chemically reactive	No	No	No	No
* This coating would be defined as a Non-HAP coating as stated in NESHAPs for Miscellaneous Metal Parts and Products (40CFR 63.3981) and Plastic Parts and Products (40CFR 63.4581)				
Volume Ratio:	As is	As is	As is	Tinted
Applicable Use Category	Primer Sealer	Primer Sealer	Primer Sealer	Primer Sealer
VOC Actual g/L	405 g/L	400 g/L	385 g/L	368-397 g/L
VOC Actual lbs/gal	3.38 lbs/gal	3.33 lbs/gal	3.21 lbs/gal	3.07-3.31 lbs/gal
VOC Regulatory	405 g/L	405 g/L	405 g/L	368-397 g/L
(less water less exempt)	3.38 lbs/gal	3.33 lbs/gal	3.21 lbs/gal	3.07-3.31 lbs/gal
Density	1366 g/L	1382 g/L	1300 g/L	1285-1391 g/L
	11.40 lbs/gal	11.53 lbs/gal	10.85 lbs/gal	10.72-11.61 lbs/gal
Volatiles wt. %	29.6%	28.9 %	29.6%	26.5-30.8%
Water wt. %	0%	0%	0%	0%
Exempt wt. %	0%	0%	0%	0%
Water vol. %	0%	0%	0%	0%
Exempt vol. %	0%	0%	0%	0%
Flashpoint	73°F (23°C)	73°F (23°C)	73°F (23°C)	73°F (23°C)

NLP Series Primers

Directions for Use

Substrate Preparation:

The surface to be coated must be 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).

Mix Directions:



Mix Directions: Single component product, stir thoroughly before and occasionally during use. No induction needed.

NLP-X35 Tintable Base is mixed 114 oz of resin to 14 oz of the H- Series Tints. Refer to the CPCTB22 Alkyd Primer Tinting Guide.

Note: Moisture contamination in components can result in poor properties of applied films or gelling of the material. Do not open until ready to use. Keep properly sealed during use.

Thinning: Thinning is not required; however small amounts (10% or less) of Q30 (acetone) or TFS321-50 exempt solvent blend may be added.

Blend Ratio: N/A

Pot Life: N/A

Spray Viscosity Range: # 3 EZ Zahn: 24-30 seconds @77°F (25°C) Varies slightly by color

Unopened Shelf Life: Gallons/Pails: 24 months
(each component) Drums: 12 months

Application Equipment:



Conventional (with or without pressure pot):	1.3 – 1.8 mm needle/nozzle, 45 – 60 psi at the gun
HVLP (with or without pressure pot):	1.3 – 1.8 mm needle/nozzle, 10 psi at cap or per manufacturer
Airless:	.009" - .013" tip with 1400 – 2500 psi
Air-Assisted Airless:	.009" - .013" tip with 1200 – 1500 psi
Brush or Roll:	Not recommended
Electrostatic:	Not recommended

Application:



Apply:	1 - 2 coats
Recommended Wet Film Build:	2.0 – 3.0 mils
Recommended Dry Film Build:	1.0 – 1.5 mils
Square Foot Coverage @ 1mil no loss:	855 – 867 sq. ft./gallon

Dry Times:



Air Dry @ 77°F (25°C) 50% RH:*	
Dust Free	20 minutes
To Touch	30 minutes
To Handle	2 hours
To Topcoat	15 – 30 minutes
To Recoat	Minimum 30 minutes, No Max.
Force Dry @ 160°F (71°C):	Flash 10 minutes @ ambient, then 20 minutes

* 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.

NLP Series Primers

Technical Data*

Performance Properties:

Test	ASTM Method	Results
Pencil Hardness	D3363	HB
Conical Mandrel	D522	Pass
Gloss @ 60° angle	D523	< 10
Adhesion	D3359	5B
In Service Temperature Limit		200°

Weather Resistance:

	ASTM Method	Result
Salt Spray – 168 hours	B117	
Corrosion Creep	D1654	9A
Scribe Blisters	D714	None
Face Blisters	D714	None
Humidity – 168 hours	D2247	Some color change and gloss loss

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 panels.

*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:

- This product should not be applied to zinc substrates.

NLP Series Primers

**3.5 VOC Non-Lift
Alkyd Primer – Gray,
Tan, Black and Tintable**

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.

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

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 (Safety, SDS Search) or your PPG Distributor.

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



PPG Industries
Commercial Coatings
19699 Progress Drive
Strongsville, OH 44149
1-800-647-6050

PPG Canada Inc.
Commercial Coatings
2301 Royal Windsor Drive, Unit #6
Mississauga, Ontario L5J 1K5
1-888-310-4762