Commercial Performance Coatings

CPCPB101

Alkyd Shop Primers

ASP Series Primers

ASP-495 2.8 VOC Gray
ASP-795 2.8 VOC Red Oxide
ASP-901 2.8 VOC Black
ASP-435 3.5 VOC Gray
ASP-735 3.5 VOC Red Oxide

The ASP Series Primers (alkyd shop primers) are cost-effective, fast dry, single component primers that can be sprayed through a variety of application equipment.

Factory-packaged colors, in both 2.8 and 3.5 lbs/gal VOC versions, are available in this primer series.

Features and Benefits:

- One component, easy-to-use
- Fast dry time for productivity
- VOC compliant options

Associated Products:

- ASP-495 2.8 VOC Shop Primer (Gray)
- ASP-795 2.8 VOC Shop Primer (Red Oxide)
- ASP-901 2.8 VOC Shop Primer (Black)
- ASP-435 3.5 VOC Shop Primer (Gray)
- ASP-735 3.5 VOC Shop Primer (Red Oxide)

Physical Constants:

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

	ASP-435/735	ASP-495/795/901
Percent solids (by weight)	71.3 / 70.6	77.8 / 77.7 / 77.5
Percent solids (by volume)	46.5 / 46.1	57.0 / 56.8 / 57.2
HAPs	≤0.1 lbs/gal	≤0.1 lbs/gal
Photo-chemically reactive	No	No

Flashpoint:

ASP-435, 495, 735, 795, 901 = 73°F (23°C)

RTS Combinations:	ASP-435/735	ASP-495/795/901
Volume Ratio	As is	As is
Applicable Use Category	Primer Sealer	Primer Sealer
VOC Actual	415 / 417 (g/L)	333 / 334 / 332 (g/L)
VOC Actual	3.46 / 3.48 (lbs/gal)	2.78 / 2.79 / 2.77 (lbs/gal)
VOC Regulatory	413 / 417 (g/L)	333 / 334 / 332 (g/L)
(less water less exempt)	3.45 / 3.48 (lbs/gal)	2.78 / 2.79 / 2.77 (lbs/gal))
Density	1444 / 1419 (g/L)	1504 / 1499 / 1474 (g/L)
Density	12.04 / 11.83 (lbs/gal)	12.54 / 12.50 / 12.29 (lbs/gal)
Volatiles wt.	28.7 / 29.4 %	22.2 / 22.3 / 22.5 %
Water wt.	0.0 %	0.0 %
Exempt wt.	0.0 %	0.0 %
Water vol.	0.0 %	0.0 %
Exempt vol.	0.0 %	0.0 %

PPG

ASP Series Primers

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)	ASP-x35*	ASP-x95/901*
Cold Rolled Steel	Excellent	Excellent
Hot Rolled Steel	Excellent	Excellent
Galvaneal	Not Recommended	Not Recommended
Galvanized	Not Recommended	Not Recommended
Aluminum	Not Recommended	Not Recommended
Plastic / Fiberglass	Not Recommended	Not Recommended

** It is recommended that the substrate be cleaned with SSPC-SPC2 Hand Tool or SSPC-SPC3 Power Tool clean Minimum. For best performance, SSPC-SP6 (NACEE#3), Commercial Blast Cleaning is recommended.*

Mix Directions:

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

Thinning:	ASP-x35	ASP-x95/901
	Do not thin.	Do not thin.

Blend Ratio:	N/A - Single component product
Pot Life @ 77°F (25°C):	N/A
Spray Viscosity Range:	#3 Zahn: = 20 seconds
Unopened Shelf Life: (each component)	2 years

Application Equipment:

	ASP-x35	ASP-x95/901
Conventional/Compliant (with or without pressure pot):	30 – 60 psi at the gun, 1.3 mm or larger fluid tip	30 – 60 psi at the gun, 1.3 mm or larger fluid tip
HVLP (with or without pressure pot):	10 psi at the cap, 1.3 mm or larger fluid tip	10 psi at the cap, 1.3 mm or larger fluid tip
Airless:	1700 psi pressure, 0.011 – 0.019" tip	1700 psi pressure, 0.011 – 0.019" tip
Air-Assisted Airless:	No Recommendation	No Recommendation
Brush:	High quality, natural bristle brush	High quality, natural bristle brush
Roll:	⅜ – ¾ inch nap roller	⅜ – ¾ inch nap roller
Electrostatic:	No Recommendation	No Recommendation

Application:

Apply: Apply only when air, product and surface temperatures are above 60°F (16°C) and when surface temperature is at least 5°F (3°C) above the dewpoint.

	ASP-x35	ASP-x95/901
Recommended Wet Film Build:	3.2 – 3.9 mils	2.6 – 3.2 mils
Recommended Dry Film Build:	1.5 – 1.8 mils	1.5 – 1.8 mils
Square Foot Coverage @ 1mil no loss:	739 – 746 sq. ft.	911 - 917 sq. ft.

Dry Times:

Air Dry @ 77°F (25°C) 50% RH:	ASP-x35	ASP-x95/901
To Touch:	10 – 20 minutes	20 minutes
To Handle*:	1 hour	1 hour
To Recoat:	1 hour	1 hour

** 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.*

ASP Series Primers

Technical Data*

Performance Properties:

System:
BONDERITE® *1000*
ASP-435 / ASP-495

Test	ASTM Method	Results ASP-x35	Results ASP-x95/901
Gloss @ 60° Angle*	D523	1	2
Pencil Hardness	D3363	H	3B
Impact (Forward/Reverse)	D522	50 / < 5 in · lbs	50 / < 5 in · lbs
Adhesion	D3359	4B	4B
In Service Temperature Limit		200°F (93°C)	200°F (93°C)

Weather Resistance:

System:
Bonderite 1000
ASP-435 / ASP-495

	ASTM Method	Results ASP-x35	Results ASP-x95/901
Salt Spray – 250 hours	B117		
Corrosion Creep	D1654	10A	6A
Scribe Blisters	D714	None	None
Face Blisters	D714	None	None
Humidity – 100 hours	D2247		
5 Minute Recovery Adhesion	D3359	4B	3B
1 Hour Recovery Adhesion	D3359	5B	2B
24 Hour Recovery Adhesion	D3359	3B	2B

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.

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.

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