

Technical
Data Sheet



Willamette Valley Company

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Partnering through service,
innovation, and integrity

POLYQuik[®] Aluminum Primer (SB)

Fast Drying Primer for Aluminum Surfaces

DESCRIPTION

POLYQuik[®] Aluminum Primer (SB) is an ULTRA-LOW VOC primer that dries quickly to provide excellent spray elastomer adhesion to aluminum surfaces. Aluminum Primer (SB) is easy to apply with a HVLP spray gun to a degreased, non-abraded aluminum surface, just prior to applying a spray elastomer topcoat.

WHERE TO USE

- **Walls & Floors**—clean aluminum surface
- **Under Coatings**—spray elastomer coatings
- **Aluminum Substrates**—parts or flat surfaces
- **OEM Operations**—fast production requirements

FEATURES AND BENEFITS

- **Superior Adhesion**—clean aluminum surfaces
- **Ultra-Low VOC**—0.09 lbs/gal VOC
- **Non-hazardous Pigments**—free of chromates
- **Fast Drying**—dries quickly in humid conditions

PACKAGING

1 gallon (3.78 L) Kit

COLORS

Black

YIELD

1300 sq.ft. per gallon at 1.0 mils
(120 sq. m. per liter at 0.025 mm)

SHELF LIFE

1 year(s) when properly stored.

STORAGE

Store and ship this product in a clean, dry, low-humidity, shaded or covered environment at 60 to 90° F (15 to 32° C).

TECHNICAL INFORMATION

Typical Properties

VOC , lbs/gal (g/L), ASTM D 2369	0.09
Viscosity , cps, ASTM D 4878, mixed	20
Service temperature , ° F (° C)	-22 to 135 (-30 to 57)
Potlife , minutes	60
Ready for topcoat , minutes	15 to 120 at 70°F (20°C)
Topcoat Adhesion , max. lbf/in (N/m), ASTM D 903	28 (topcoat cohesive failure)

Cure Time

Temperature, 50% RH	Ready for topcoat, minutes	Maximum recoat time, hrs
50° F (10° C)	30	3
70° F (21° C)	15	2
104° F (40° C)	10	1

Processing Parameters

Ratio by volume , (Part A to Part B)	1 to 10
Application temp , ° F (° C)	50 to 105 (10 to 40)
Recommended thick. , mils (mm)	0.5 to 1.0 (0.012 to 0.02)
Spray equipment , tip (mm), psi (bar)	HVLP Siphon or HVLP Gravity 0.071-0.087" (1.8-2.2), 10 (0.8)

APPLICATION

SURFACE PREPARATION

1. Remove any sharp edges and other surface imperfections.
2. Degrease surfaces with metal cleaner and a lint-free cloth.
3. For maximum adhesion, abrade surface with a red scuffing pad or a #80 sand paper. Degrease abraded surfaces with metal cleaner.
4. Apply coating only if steel surface temperature is 5° F (3° C) above the dew point to avoid application over damp surface.
5. Apply primer and topcoat within the 2 hours and before the prepared surface is chemically contaminated. Re-clean surface that has been contaminated before applying primer or topcoat.
6. Mask off any area that is not to be primed.

PROCESSING

1. Precondition the containers to 70°F (21°C) for 24 hours before using. Choose a work area that is shaded and away from direct sunlight.
2. Part B must be mixed in its original container before Part A and Part B are combined. Slowly mix Part B with a mixing stick until all pigment is distributed and color is uniform (usually 3 to 5 minutes).
3. Use marked containers to measure exact ratio of Part A and Part B. Choose a final volume that can be easily applied within 30 minutes.
4. Mixing containers must be clean and dry. Do not use containers contaminated with water or other liquids.

APPLICATION

1. Apply POLYQuik® Aluminum Primer (SB) no more than 1 wet mil (0.025mm). Applications thicker than 1 wet mil will result in poor primer performance and possible adhesive failure of the topcoat.
2. Before priming, protect adjacent surfaces with tape or other kinds of protective barriers.

3. Begin priming only if the topcoat can be applied within 2 hours of primer application. Make sure primer does not puddle, run, or build up in crevices.
4. Proper application is the responsibility of the user. Field visits by WVCO Representative are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

SPRAY APPLICATION

1. This method is recommended for priming large areas, vertical areas, and narrow spaces.
2. Wear proper respiratory protection and other protective gear while spraying.
3. Use a HVLP spray gun fitted with a 0.071-0.087" (1.8-2.2 mm) tip and set at an air pressure of 10 psi (0.8 bar).

NOTE: Potlife of mixed material is 60 minutes. Topcoats must be applied before primer becomes contaminated. If topcoat time is exceeded, mechanically remove primer, degrease, and re-prime area.

CLEANING & MAINTENANCE

- Clean equipment with POLYQuik® Cleaner or acetone immediately after use. Cured material must be removed mechanically.

HEALTH AND SAFETY

Willamette Valley Company recommends reading and becoming familiar with the MSDS before using this product.

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