

**Technical
Data Sheet**



Willamette Valley Company
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Partnering through service,
innovation, and integrity

POLYQuik® P-695

Color Stable Aliphatic Polyurea Coating

DESCRIPTION

POLYQuik® P-695 is a clear, two-component, aliphatic coating specifically designed as a floor coating. It has excellent outdoor weathering characteristics and outstanding impact and abrasion resistance. It cures quickly for rapid return-to-service and for same day application of multiple coats. POLYQuik® P-695 can be applied by roller or brush.

WHERE TO USE

- **Floor Coating**—smooth or aggregate-filled
- **Topcoat**—apply for color stability
- **Protective Coating**—concrete, wood, metal
- **Walkway Surfaces**—slip-resistant with aggregate

FEATURES AND BENEFITS

- **Color Stable**—excellent weathering resistance
- **Fast Cure Time**—quick return to service
- **Flexible & Tough**—absorbs impact & scratch resistant
- **Easy to Apply**—roller, brush

PACKAGING

4-gal kits (15.1 L)
50-gal drum (189 L)

COLOR

Clear

YIELD

260 ft² per gal. at 6 mils
(6.4 m² per liter at 0.15 mm)

SHELF LIFE

6 months when properly stored.

STORAGE

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

TECHNICAL INFORMATION

Typical Properties	
VOC , lbs/gal (g/L), ASTM D 2369	0
Viscosity , cps, ASTM D 4878, resin / iso	280 / 140
Hardness , Shore D, ASTM D 2240	70
Service temperature , ° F (° C)	-30 to 150 (-34 to 65)

Chemical Resistance (Recommended, Not recommended, Conditional)		
Chemical	Splash & Spill (less than 2 hours)	Long Term Exposure
Diesel	R	R
Water	R	R
Acetone	C	NR
Saturated Caustic	R	R
12% Sod. Hypochlorite	R	R
10% Sulfuric Acid	R	NR

Processing Parameters	
Ratio , resin to iso	1.6 to 1 volume 1.5 to 1 weight
Application temp. , F° (C°)	20 to 110 (6 to 43)
Recommended thickness , mils (mm)	6 to 12 (0.15 to 0.3)

Cure Time

Surface Temp. 50% RH, F°(C°)	Minimum Recoat Time, hours	Maximum Recoat Time, hours	Potlife (with lid on mixing container)
32 (0)	8	36	40 minutes
50 (10)	5	24	
77 (21)	2	24	
100 (38)	1	24	

APPLICATION

SURFACE PREPARATION

WOOD

1. Store wood in a covered, dry location, and protect surface from damage and contamination.
2. For a completely uniform appearance in the finished product, fill all voids, spaces, or damaged areas prior to priming. Repair or fill areas with FastPatch or other suitable filler. Contact WVCO representative for filler options and technical recommendations. Remove any excess filler by sanding until level with surrounding area.
3. Ensure wood surface is smooth and dry. Surface must have a 36-120-grit surface and less than 10% surface moisture.
4. Priming is required: Prime with POLYQuik Epoxy Primer, PolyPrime, or other suitable primer. Contact WVCO representative for primer options and technical recommendations. Refer to primer technical data sheet for application and cure time information.

CONCRETE

1. Priming is required; prime with POLYQuik® Epoxy Primer, PolyPrime, or other suitable primer. Contact WVCO representative for primer options and technical recommendations. Refer to primer technical data sheet for application and cure time information.
2. The surface being coated must be fully cured (28 days minimum), structurally sound (200 psi or greater tensile strength according to ASTM D 7234), clean (ASTM D 4258), and dry (less than 5% surface moisture, ASTM E1907 and D4263).
3. The surface must have low moisture-vapor transmission (less than 3 lb/24 hr/1,000 ft², RMA Test Method).
4. Do not apply over concrete if vapor barrier is not present or unknown.
5. Profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting or hydroblasting. Remove contaminants before blasting.
6. Fill all voids and cracks between 0.06-0.50" (1.5-12.5mm) with FastPatch or other suitable filler to ensure floor is level to appropriate elevation. Contact WVCO representative for filler options and recommendations.
7. To achieve a smooth floor, apply a level coat of Epoxy Primer, then topcoat with P-695. Follow the appropriate recoat guidelines when applying P-695 as a topcoat.

COATINGS

1. Spray elastomer coating must be less than 12 hours old for POLYQuik® P-695 to adhere without preparing the coating surface.
2. If 12 hours have passed since the spray elastomer coating application, mechanically abrade surface and clean with Acetone or POLYQuik® Cleaner.
3. Allow cleaned surface to dry and immediately apply POLYQuik® P-695.

STEEL & OTHER METALS

1. Steel and metal surfaces must be cleaned before blasting according to SSPC-SP1. Remove any sharp edges and other surface imperfections.
2. Blast according to SSPC-SP10 / NACE No. 2 Near White standard (0.003" (0.08 mm) profile).
3. Test the surface for non-visible soluble salt contamination according to NACE 6G186. If necessary treat the surface with CHLOR*RID or equivalent chloride remover until less than 3mg/cm² is detected.
4. PRIMING STEEL OR OTHER METALS – Apply POLYQuik® Epoxy Primer or PolyPrime only if metal surface temperature is 5° F (3°C) above the dew point to avoid application over damp surface. Refer to primer technical data sheet for application and cure time information. Other primers may also be used. Do not use without contacting your WVCO Representative for approval.
5. For aluminum and galvanized metals, contact your WVCO Representative for additional information.

PROCESSING

1. Condition resin and iso to approximately 70°F (21°C) for 24 hours before using.

2. Use a drill fitted with a blade approximately 1/3 the diameter of the container to redistribute any settled material.
3. Use a clean mixing blade and mechanical mixer and mix the resin in its original container for 2-3 minutes at 100-200 RPM. Scrape bottom and sides of container and mix for an additional 60 seconds.
4. Protect surrounding surfaces of the application area. Protect substrate from direct sunlight to prevent sudden changes in substrate temperatures.

APPLICATION

1. Ensure surface is primed according to Surface Preparation guidelines.
2. Add the iso component into resin container. Combine the entire quantity of the kit and do not mix smaller volumes. Only mix the amount of kits that can easily be applied within 15 minutes. For temperatures between 5° F - 30° F (-15° C - 0° C), add 1 to 1½ pints (0.5-0.75 L) of dry Acetone to Part B and mix before combining with Part A.
3. Mix for 60 seconds. Scrape the sides and bottom of the bucket with a wooden straight edge and continue to mix for an additional 60 seconds. All of the isocyanate must be thoroughly incorporated in the resin before adding it to the application area. **THE MATERIAL WILL NOT SET IF IT IS IMPROPERLY MIXED.** Signs of poor mixing include tacky material that does not harden.
4. Keep lid on the mixing container while product is not being used.
5. Pour material onto substrate surface. Do not turn bucket over and allow to drain. Do not scrape last remaining material out of bucket.

NOTE: Other techniques and methods can be used. It is the responsibility of the applicator to determine suitability and work flow.

SQUEEGEE AND BACKROLL

1. Pour POLYQuik® P-695 in a long line and follow with a 1/8" serrated squeegee
2. Use ¼" nap mohair roller (9" or 18" wide) to back roll.
3. Back roll perpendicular to squeegee line to remove puddles.
4. POLYQuik® P-695 thickness should be 6 mils and no more than a maximum of 12 mils thick. Use a wet film gauge to check the thickness of the product. After product cures, remove any blisters that rise out of concrete pores.
5. Apply next coat only after the basecoat is hard and tack-free. Refer to recoat schedule.

ONE-COMPONENT PUMP

- 1., Use a solvent-resistant airless sprayer that can generate 1000 PSI (35:1 airless pump) and equipped with a reversible tip (e.g., 0.023 in).
4. Purge pump with the product to flush residual material in the pump and hoses
5. Spray product in a crosshatch manner to assure full coverage.

FOR SLIP-RESISTANCE

1. Spread POLYQuik® Epoxy Primer over the concrete surface with a 1/8" serrated squeegee and back roll until the product is spread evenly. Cover the area with desired-mesh and color of sand till refusal (contact WVCO representative for sand information). Allow the product to cure 12-24 hours and remove excess sand. Spread POLYQuik® P-695 with a flat squeegee and back roll. Repeat as necessary.
2. POLYQuik® P-695 thickness should be 6 mils and no more than a maximum of 12 mils thick. Use a wet film gauge to check the thickness of the product. After product cures, remove any blisters that rise out of concrete pores.
3. Another method is to IMMEDIATELY and UNIFORMLY broadcast sand into the wet POLYQuik® P-695 and back roll.

CLEANING & MAINTENANCE

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

NOTE: 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.

HEALTH AND SAFETY

Before handling, you should become familiar with the Material Safety Data Sheet (MSDS) regarding the risks and safe use of this product. To obtain an MSDS please call 800-333-9826 or send an email to: msds@wilvaco.com

DISCLAIMER OF WARRANTY

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