

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 applications and for same day application of multiple coats. POLYQuik® P-695 can be applied by roller, brush, or airless sprayer.

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
- **Quick Cure Time**—fast turn-around time
- **Flexible & Tough**—absorbs impact & scratch resistant
- **Easy to Apply**—roller, brush, spray

PACKAGING

4-gallon (15.1 L)

COLORS

Clear

YIELD

260 sq. ft. per gal. at 6 mils
(6.4 sq.m. per liter at 0.15 mm)

SHELF LIFE

6 months(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
Viscosity , cps, ASTM D 4878, Part A / Part B	170 / 300
Hardness , Shore D, ASTM D 2240	70
Service temperature , ° F (° C)	-30 to 150 (34 to 65)

Cure Time

Surface Temp. 50% RH, ° F (° C)	Tack-Free Time, hrs	Maximum Recoat Time, hrs	Potlife Closed Container
32 (0)	8	36	40 min.
50 (10)	5	24	
77 (21)	2	24	
100 (38)	1	24	

Chemical Resistance

Chemical	Splash & Spill (Less than 2 hrs.)	Long Term Exposure
Diesel	R	R
Water	R	R
Acetone	C	NR
Sat. Caustic	R	R
12% Sod. Hypochlorite	R	R
10% Sulfuric Acid	R	NR

R = Recommended; NR = Not Recommended.; C = Conditional

Processing Parameters

Ratio by volume Resin to Iso	1.6 to 1
Application temp , ° F (° C)	20 to 110 (-6 to 43)
Recommended thick. , mils (mm)	6 to 12 (0.15 to 0.3)
Meter equipment	Single component
Gun requirement	Reversible tip
Spray pressure , psi (MPa)	1000-2000 (6.9 to 13.8)

APPLICATION

SURFACE PREPARATION

CONCRETE

1. The surface being coated must be cured for at least 28 days, structurally sound (200 psi or greater according to ASTM D 4541), clean (ASTM D 4258), and dry (less than 5%, ASTM E 1907 and ASTM D 4263).
2. The surface must have low moisture-vapor transmission (less than 3 lb/24 hr/1,000 ft², RMA Test Method).
3. Profile surface according to ICRI Guide Q3732 to a minimum of CSP 3 by abrasive blasting or hydroblasting. Remove contaminants before blasting.
4. Fill all voids and cracks between 0.06-0.50" (1.5-12.5mm) with POLYQuik® HPU-FILLER or HPU-CJF and level to appropriate elevation.
5. To achieve a smooth floor, first profile surface to CSP 3, apply a level coat of POLYQuik® Epoxy Primer or POLYQuik® FCS Basecoat, the topcoat with POLYQuik® P-695. Follow the appropriate recoat guidelines when applying POLYQuik® 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 surfaces must be cleaned before blasting (SSPC-SP1). Remove any sharp edges and other surface imperfections.
2. Dry abrasive blast surface according to SSPC-SP10/NACE No. 2 (0.003" or 0.08mm profile).
3. Remove any non-visible soluble salt contamination (less than 3 mg/cm², NACE GG186, CHLOR® RID).
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 coating within the same day and before the prepared steel surface is chemically contaminated and before rusting reoccurs.
6. For aluminum and galvanized metals, contact your WVCO Representative for additional information.

PRIOR TO APPLICATION

1. Verify the product temperature is between 60-90° F (16-32° C) and has been stored at this temperature. Verify substrate is properly prepared and free of moisture or other contaminants. Verify the substrate temperature is stable and only apply product after the substrate has reached its maximum temperature.
2. Protect surrounding surfaces of the application area. Protect substrate from direct sunlight to prevent sudden changes in substrate temperatures.
3. Fill all large voids with an appropriate filler to prevent the product from pooling in these areas.
4. Apply POLYQuik® PolyPrime or POLYQuik® Epoxy Primer according to instructions and topcoat when tack-free.
4. Mix for 3-4 minutes, and scrap the container sides while mixing.
5. Keep lid on the mixing container while product is not being used.

APPLICATION

Precondition material to at least 70° F (21° C) 24 hours before application.

2. Use a clean mixing blade and mechanical mixer and mix Part B in its original container for 3-5 minutes (100-200 RPM). For temperatures between 5°F - 30°F: add 1 to 1 ½ pints of Acetone to Part B and mix.
3. Add the Part A (Iso) component to the Part B 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.
4. Mix for 3-4 minutes, and scrap the container sides while mixing.
5. Keep lid on the mixing container while product is not being used.

Squeegee & Back Roll

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 should be no more than 0.012 inches thick. Use a Wet-Mil 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. Wear proper respiratory protection and other protective gear while spraying.
2. Mix Part B for 3-5 minutes.
3. For one-component application, 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. (N-S, E-W)
7. POLYQuik® P-695 should be no more than 0.012 inches thick. Use a Wet-Mil gauge to check the thickness of the product.

FOR SLIP-RESISTANCE

1. Spread POLYQuik® Epoxy Primer over the surface with a 1/8" serrated squeegee and back roll until the product is spread evenly. Cover the area with 16/30-mesh sand until the surface is completely dry. Allow the product to cure 24 hours and remove excess 16/30-mesh sand. Spread POLYQuik® P-695 with a flat squeegee and back roll.
2. Another method is to IMMEDIATELY and UNIFORMLY broadcast 16/30 mesh sand into the wet POLYQuik® P-695 and back roll.

CLEANING & MAINTENANCE

- Use POLYQuik® Cleaner to clean guns and parts after every use. Do not immerse gun in Cleaner.
- Flush the metering equipment with POLYQuik® Pump Lube and replace Pump Lube when cloudy.

HEALTH AND SAFETY

Willamette Valley Company recommends reading and becoming familiar with the Material Safety Data Sheet before using this product.

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