

Technical Data Sheet



W V C O

Willamette Valley Company

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Partnering through service,
innovation, and integrity

POLYQuik® 1K Primer MC

Fast Curing Primer for Concrete Surfaces

DESCRIPTION

POLYQuik® 1K Primer MC cures quickly to provide excellent adhesion of POLYQuik® products to concrete surfaces. POLYQuik® 1K Primer MC is easy to apply by brush or with a pump sprayer and penetrates into a properly prepared concrete surface. POLYQuik® products can be applied over POLYQuik® 1K Primer in a little as 15 minutes.

WHERE TO USE

- **Roadways**—prepares defects for repair
- **Parking Lots**—primes spalls for patching
- **Warehouses**—transitions or spalls
- **Sidewalks**—broken or damaged areas

FEATURES AND BENEFITS

- **Easy to Use**—apply by brush or sprayer
- **Fast Curing**—topcoat quickly
- **Strengthen Surface**—better adhesion to concrete
- **Excellent Adhesion**—penetrates concrete pores

PACKAGING

- 1 quart (0.94 L)
- 1 gallon (3.78 L)

COLORS

Amber

YIELD

175 sq.ft. per gallon at 3.0 mils
(4.3 sq. m. per liter at 0.075 mm)

SHELF LIFE

6 months 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 , lb/gal ASTM D 2369	2.53
Viscosity , cps, ASTM D 4878	50
Service temperature , ° F (° C)	-22 to 135 (-30 to 57)
Potlife , minutes	60
Ready for topcoat , minutes	15
Topcoat Adhesion , psi (MPa), ASTM D 4541	500 (concrete failure)

Processing Parameters

Ratio by volume	One component
Application temp. , ° F (° C)	50 to 104 (10 to 40)
Recommended thickness , mils, (mm)	1 to 3 (0.025 to 0.075)
Spray equipment	Solvent-resistant pump sprayer

APPLICATION

SURFACE PREPARATION

CONCRETE:

1. The surface being repaired must be fully cured 28 days, structurally sound (200 psi or greater according to ASTM D 4541), clean (ASTM D 4258), and dry (less than 5%, ASTM E1907 and ASTM D 4263).
2. Remove any contaminants before profiling surface.
3. Profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting.
4. Use compressed air to blow out loose debris, dirt and dust prior to applying product.

OTHER MATERIALS

1. Previously installed polymer materials must be tested to determine the best method of preparation to achieve acceptable adhesion. Consult manufacturer for recommendation. Typically, methods will include solvent cleaning, abrading, and vacuuming surface.
2. Do not use in or around asphalt materials due to poor long term adhesion performance.

PROCESSING

1. Precondition the container to 70°F (21°C) for 24 hours before using.
2. Store containers in covered area and out of direct sunlight. Keep all containers sealed when not in use.

APPLICATION

1. Before priming, protect adjacent surfaces with tape or other kinds of protective barriers.
2. Begin priming only if the topcoat can be applied within the recoat window listed above. Make sure primer does not puddle, run, or build up in crevices.
3. Apply 1-3 wet mil (0.025-0.075mm) POLYQuik® 1K Primer (MC) by brush or sprayer. Applications thicker than 3 wet mil will result in poor primer performance and possible adhesive failure of the topcoat.
4. Apply subsequent coats to increase bond strength as necessary. Rough concrete surface profiles may require multiple coats.
5. Allow primer to become tack-free before applying second coat of primer or topcoat product.

SPRAY APPLICATION

1. This method is recommended for priming large areas, vertical areas, and narrow spaces.

CLEANING & MAINTENANCE

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

HEALTH AND SAFETY

Willamette Valley Company recommends you read and become familiar with the MSDS before using this product.

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