

Technical
Data Sheet



Willamette Valley Company

www.wilvaco.com

800.333.9826

Partnering through service,
innovation, and integrity

POLYQuik[®] ISOPRIME

Single Component Primer

DESCRIPTION

POLYQuik[®] ISOPRIME is a single component moisture cure primer. ISOPRIME has excellent adhesion to concrete and increases the bond strength of various POLYQuik[®] products to concrete substrates. ISOPRIME is 100% solids and will promote adhesion for FASTPATCH GC/MD/SC/NS and EJC products.

WHERE TO USE

- **Joints**—greatly increases bond strength and joint life
- **Spalls**—strengthens concrete surface
- **Cracks**—broken or damaged areas
- **Sidewalks, Vertical Surfaces**—increases bond strength

FEATURES AND BENEFITS

- **Long Pot Life**—single component ensures long work life
- **100% Solids**—no fumes, easy to ship
- **Promotes Adhesion**—can be used with various products
- **Easy To Apply**—apply with a brush, roller, or sprayer
- **Wide Recoat Window**—flexible topcoat times
- **Increases Concrete Strength**—concrete repairs last longer

PACKAGING

1-gallon jugs

COLORS

Amber

YIELD

300 sq.ft. per gallon at 4 mils
(7.5 sq.m. per liter at 0.1mm)

SHELF LIFE

1 year 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, mixed	480
Service temperature , ° F (° C)	-30 to 170 (-34 to 77)
Potlife , hrs, 70° F (21° C)	5
Tack Free Time , hrs, 70° F (21° C)	4 (temperature dependent)
Recoat Time , hrs, 70° F (21° C)	2-24
Concrete adhesion , psi (MPa), ASTM D 4541	500 (3.4) 100% substrate (primed)

Processing Parameters

Ratio by volume	Single component
Application temp , ° F (° C)	50 to 100 (10 to 37)
Recommended Thickness	4 mils (0.1mm)
Application Methods	Roller, brush, or spray

APPLICATION

SURFACE PREPARATION

CONCRETE

1. The concrete surface being repaired must be fully cured 28 days, structurally sound (200psi or greater according to ASTM D7234), clean (ASTM D4258), and dry (less than 5%, ASTM E1907).
2. Concrete surface must be dry and clean. Any water or oil present will result poor adhesion.
3. Remove any contaminants before profiling surface.
4. It is recommended to profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting.
5. Saw cut spall area in shape of a square 3 inches deep, hammer (15 lb) spall area and remove debris. Recommend repair size is less than 10 ft² (1m²).
6. Use a steel bristle brush to remove dirt on vertical and horizontal concrete surfaces
7. Use 150 PSI continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. Moist concrete can be torched dry. If moisture returns immediately after torching, stop and do not install POLYPRIME in this area.
8. As necessary, plug all gaps or joints surrounding the spall area with foam backer rod and choose a backer rod width that fits tightly in the area.

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. ISOPRIME is not recommended for use in asphaltic roadways.

PROCESSING

1. Precondition the ISOPRIME to a minimum of 70°F (21°C) for 24 hours before using. Non-conditioned material will result in longer tack-free times.

APPLICATION

1. Protect the surfaces around the application area to prevent contamination during the installation.
2. Open container and place a manageable amount of ISOPRIME in a paint pan. Close container when not in use. Containers left unclosed for long periods of time will cause material to harden.
3. Apply ISOPRIME using a paint brush or roller to the substrate that is to be repaired. Do not over apply product, do not allow to puddle. Any material puddles should be blot dried with a clean paper towel.
4. Allow material to cure for 2-24 hours. At 2-hours the material will be tacky, however performance will not be affected. If the topcoat is an overlay, wait until ISOPRIME is tack free. Small blisters may occur if the overlay is applied before ISOPRIME is tackfree. Do not exceed the 24-hour recoat time.
5. Apply backer rod and plug joints after the application of ISOPRIME.
6. If spray applying, wear protective clothing and use a full mask respirator. Refer to MSDS for more safety information.

Surface Temp. °F (°C)	Tack Free Time
100 (37)	3
77 (25)	4
50 (10)	8

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 that you read and become familiar with the MSDS before using this product.

WILLAMETTE VALLEY COMPANY

www.wilvaco.com
info@wilvaco.com

DIVISIONS

WESTERN DIVISION

1075 Arrowsmith Street
PO Box 2280
Eugene, OR 97402
Tel 541.484.9621
www.polyquik.com
www.wvcorailroad.com

EASTERN DIVISION

6662 Marbut Road
Lithonia, GA 30058
Tel 888.878.9826

MIDWEST DIVISION

1549 Hwy 2
Two Harbors, MN 55616
Tel 218.834.3922

PRECISION TECHNOLOGIES DIVISION

675 McKinley Street
Eugene, OR 97402
Tel 541.484.2368
www.pre-tec.com

SOUTHERN DIVISION

100 Dixie Mae Drive
PO Box 4450
Pineville, Louisiana 71361
Tel 318.640.5077

SUBSIDIARIES

CANADIAN WILLAMETTE

325 Edworthy Way
New Westminster BC V3L 5G4
Tel. 800.663.4298

ECLECTIC PRODUCTS INC.

Corporate Office
1075 Arrowsmith Street
Eugene, OR 97402
Tel 541.284.4667
www.eclecticproducts.com

IDAHO MILL & GRAIN

445 North 430 West Hwy
Po Box 188
Malad City, Idaho 83252
Tel 208.766.2206

TAPEL WILLAMETTE LTD. S.A.

Av. Estero La Posada 3625 Parque
Industrial Coronel Coronel, Chile
Tel 011.56.41.928.100
www.tapel.cl



DISCLAIMER OF WARRANTY

TEST RESULTS ARE TO BE CONSIDERED AS REPRESENTATIVE OF CURRENT PRODUCTION AND SHOULD NOT BE TREATED AS SPECIFICATIONS. WHILE ALL THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE RELIABLE AND TO REPRESENT THE BEST AVAILABLE DATA ON THESE PRODUCTS, NO GUARANTEE, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE SUITABILITY OF ANY CHEMICAL COMPOUNDS FOR ANY PARTICULAR USE, OR THAT ANY CHEMICAL COMPOUNDS OR USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. EACH USER SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE.