

Technical Data Sheet



W V C O

Willamette Valley Company

www.wilvaco.com

800.333.9826

Partnering through service,
innovation, and integrity

POLYQuik® CJF-CC

Fast-Setting Two-Component Polyurea Control-Joint Filler

DESCRIPTION

POLYQuik® CJF-CC is a two-component, self-leveling, 100% solids hybrid polyurea, control-joint filler designed to protect joints in industrial concrete floors subject to hard wheels and heavy loads. POLYQuik® CJF-CC provides excellent resistance to spalling, abrasion, chemical attack and corrosion. It is also ideal for filling random cracks.

WHERE TO USE

- **Control Joints in Concrete**– Interior or exterior locations
- **Retail and Warehouse Floors**
- **Random Crack Filling**

FEATURES AND BENEFITS

- **Rapid Gel Time**– Reduces facility down time
- **Rapid Return To Service** – Trim in as little as an hour
- **No VOCs**– Very low odor
- **No Staining After Trimming**
- **High Abrasion Resistance** – Approved for hard-wheel traffic

USDA Approved For Incidental Food Contact – Can be used in meat and poultry plants

PACKAGING

10-gallon (37.9 L) kits
600mL cartridges

COLORS

Gray

YIELD

12 feet (3.8 meter) per cartridge in 1"x¼" (25x6.4 mm) joint. See chart below for bulk yields.

SHIPPING, STORAGE & SHELF LIFE

Shelf life of 1 year when shipped and stored 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, Resin / Iso	1700/1700
Service temperature , ° F (° C)	-40 to 350 (-40 to 177)
Gel time , sec	60
Trim time , hrs	1 - 12
Tensile , psi (MPa), ASTM D 412	1400 (9.6)
Elongation , %, ASTM D 412	100
Hardness , Shore A, ASTM D 2240	90
Return to service , hrs	1 - 3

Yield, ft/gal (m/L)

Joint Width, In (mm)	Joint Depth 1.0" (25mm)	Joint Depth 1.5" (38mm)	Joint Depth 2.0" (51mm)
¼" (6.4)	76 (6.4)	51 (4.2)	38 (3.2)
⅜" (9.5)	50 (4.2)	34 (2.6)	25 (2.1)
½" (12.7)	38 (3.2)	25 (2.1)	19 (1.6)

APPLICATION

SURFACE PREPARATION: CONCRETE

1. The concrete surface being repaired should 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. Joint concrete surfaces must be sound, dry, clean, free of dirt, moisture, loose particles, oil, asphalt, tar, paint, wax, rust, waterproofing and curing/parting compounds, membranes, and other foreign matter.
3. Clean concrete where necessary by grinding, sandblasting, or wire brushing. Expose a sound surface free of contamination.

OLD CONCRETE PREVIOUSLY CAULKED

1. Remove all old joint sealing material by saw cut.
2. Priming is required if previous jointing compound is not saw-cut free (see PRIMING section below).
3. If joint sides have absorbed oils or latents, cut away sufficient concrete to ensure a clean, fresh surface.

INSTALLATION

JOINT DESIGN

1. Use CJF-CC only in joints where shrinkage and movement will be less than +/-5% of joint width.
2. POLYQuik® CJF-CC is not recommended for joints greater than 1/2" (12.5mm) wide. CJF-CC is not recommended for poolside use.
3. Install CJF-CC at full joint depth to allow for proper load transfer. Do not use sand or backing materials simply to reduce volume. Clean, dry silica sand may be used to seal cracks in the base of the joint if approved by the specifier; however, WVCO recommends that the minimum application be 2/3 the depth of the joint or 1", whichever is greater.
4. Do not install over backer-rod in sawcut control joints. Compressible rod may be used at depths greater than 1-1/2" in formed construction joints.

PRIMING

1. For most applications, priming is not required. While priming is typically recommended by manufacturers and industry associations, it is not always a requirement. Decisions whether to use primer are the responsibility of the engineer and contractor alike.
2. Where joints will be subject to continuous or protracted periods of water immersion, they must have their joint faces primed with POLYQuik® PolyPrime. Conduct a test application to verify adhesion.
3. To minimize contamination of adjacent surfaces apply masking tape before priming and remove before the sealant has begun to thicken and set.
4. Prime a thin, uniform film (typically 1 – 2 mils). Avoid buildup of excess film thickness and application of primer beyond joint faces. Excess primer should be blown out of the joint surface with 150-psi dry air while still liquid.
5. Allow approximately 45 – 60 minutes drying time; primer should be tack free before application of sealant.
6. Contact Willamette Valley Co. for specific recommendations on further priming applications.

METER DISPENSED PROCESSING

1. Use WVCO meter or equivalent at a 1 to 1 ratio by volume. For metering applications contact Willamette Valley Company Precision Technologies division for equipment recommendations.
2. Condition RESIN and ISO to approximately 70°F (21°C) for 24 hours before using.
3. Mechanically mix RESIN for 30-60 minutes: do not over mix. Use mix blades that are 1/3 the diameter of the container.
4. Test the meter operation of CJF-CC before dispensing in joint area. Use a 13-mm diameter mix tube with 32-elements or recommended equivalent

(contact Willamette Valley Co. for approved equivalents). Initially dispense into a mold-released container. Verify CJF-CC color/mixing is uniform and the material sets uniformly in 5 minutes at 70°F (21°C). Cut container away from cured urethane to thoroughly inspect material.

METER APPLICATION

1. Dispense into jointing area using a pressure that is efficient and comfortable for the individual application technician.
2. Application pressures and rates will vary with jointing configuration. Pressures should not fall below 40-psi on WVCO meters.
3. Fill the joint from the bottom up. Completely fill joint in 1-pass. In cases where slab elevations differ, fill to the lower slab height.
4. Stopping more than 30-seconds can clog mix-tubes. Change mix-tubes if dispensing stops more than 30-seconds at 70°F (21°C). Elevated temperatures decrease mix-tube life.
5. Periodically inspect applied jointing material for uniformity and proper set. If inspected areas are non-uniform; stop, change mix tube and check meter operation for compliance.
6. Trim excess fill after 1 – 3 hours (depending on temperature) with a stiff, sharp razor blade (0.032" thick) attached to a heavy floor scraper (Crane 375).

CARTRIDGE DISPENSED

PROCESSING

1. Condition cartridges to approximately 70°F (21°C) for 24-hours before using.
2. Use a 30-element 10-mm diameter static mix tube with a pneumatic gun. Hand pumping is not recommended due to the increased chances of poor mixing. Contact supplier for further instructions if hand pumping is required.

CARTRIDGE APPLICATION

1. Use a 1-to-1 pneumatic dispenser (maximum of 80 psi) and ensure that the pneumatic dispenser is the proper sizing.
2. Keep the cartridge upright during assembly.
3. Remove the retaining nut and caps from the cartridge.
4. Check alignment of plungers inside cartridge; level if necessary.
5. Place mix-tube on cartridge nozzle and hand tighten the retaining nut over the mix-tube.
6. Keep cartridge upright and load into applicator gun.
7. While pointing cartridge upright, trigger handle to remove any air trapped in cartridges.
8. Point cartridge over waste container and dispense initial material (20-40mL) outside the jointing area.
9. Avoid triggering on and off. Stopping more than 30-seconds can clog mix-tubes. Change mix-tubes if dispensing stops more than 30-seconds at 70°F (21°C). Elevated temperatures decrease mix-tube life.
10. Fill the joint from the bottom up. Completely fill joint in 1 pass, avoid overfilling. In cases where slab elevations are different, fill to the lower slab height.
11. Trim excess fill after 1 – 3 hours (depending on temperature) with a stiff, sharp razor blade (0.032" thick) attached to a heavy floor scraper (Crane 375).

NOTE: Application of any POLYQuik® CJF-CC cartridge must be performed continuously. Stopping before the cartridge is completely dispensed will result in the material setting up in the mixing nozzle.

CLEANING & MAINTENANCE

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

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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WILLAMETTE VALLEY COMPANY

www.wilvaco.com
info@wilvaco.com

DIVISIONS

WESTERN DIVISION

1075 Arrowsmith Street
P.O. 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
P.O. Box 4450
Pineville, Louisiana 71361
Tel. 318.640.5077

SUBSIDIARIES

CANADIAN WILLAMETTE

19081- 27th Avenue
Surrey, BC V3S 5T1
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
P.O. 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 011.56.41.2.928.100
www.tapel.cl

