

# Technical Data Sheet



**W V C O**

Willamette Valley Company

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Partnering through service,  
innovation, and integrity

# POLYQuik® CJF

## Fast-Setting Two-Component Polyurea Control-Joint Filler

### DESCRIPTION

POLYQuik®-CJF is a two-component self-leveling 100% solids polyurea control joint filler designed to protect joints in industrial concrete floors subject to hard wheels and heavy loads. CJF 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
- **No VOCs**– Very low odor
- **Excellent Chemical Resistance**
- **Outstanding Abrasion Resistance**
- **USDA Compliant** – Can be used in meat and poultry plants

### PACKAGING

10-gallon (37.9 L) kits  
Biaxial Cartridges

### COLORS

Gray, Black

### YIELD

See chart below

### SHELF LIFE

2 years 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

<b>VOC</b> , lbs/gal (g/L), ASTM D 2369	0
<b>Viscosity</b> , cps, ASTM D 4878, Part A / Part B	550/1220
<b>Service temperature</b> , ° F (° C)	-40 to 200 (-40 to 93)
<b>Gel time</b> , sec	60 - 70
<b>Trim Time</b> , hrs	1 - 3
<b>Tensile</b> , psi (MPa), ASTM D 412	1,975 (13.6)
<b>Elongation</b> , %, ASTM D 412	470
<b>Hardness</b> , Shore A, ASTM D 2240	85 - 90
<b>Return to service</b> , hrs	1 - 3

### Yield

Joint Width, in (mm)	Joint Depth 1.5" (38mm)	Joint Depth 2" (51mm)	Joint Depth 2.5" (51mm)
3/16 (4.8)	68 (5.5)	51 (4.2)	41 (3.2)
1/4 (6.4)	51 (4.2)	38 (3.2)	30 (2.4)
3/8 (9.5)	34 (2.6)	25 (2.1)	20 (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 POLYQuik-CJF only in joints where shrinkage and movement will be less than +/-5% of joint width.
2. POLYQuik-CJF is not recommended for joints greater than 1/2" (12.5mm) wide. POLYQuik CJF is not recommended for poolside use.
3. Install POLYQuik-CJF 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 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 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.

### 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. Remove the retaining nut and caps from the cartridge.
3. Keep the cartridge upright during assembly.
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. 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. Avoid triggering on and off. 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).
12. NOTE: Application of any POLYQuik®-CJF 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

Wash tools with POLYQuik® Cleaner immediately after use. Cured material must be removed mechanically.

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## HEALTH AND SAFETY

Willamette Valley Company recommends you read and understand the MSDS before using this product.

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