

# 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. POLYQuik-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 gallons (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 350 (-40 to 177)
<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. Concrete must be fully cured (28 days). Following ACI 302 recommendation, apply joint fillers as late as possible after construction (ideally 90 – 120 days to minimize additional slab shrinkage).
2. Joint surfaces must be sound, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing and curing or 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 and laitance.

### OLD CONCRETE PREVIOUSLY CAULKED

1. Remove all old joint sealing material by mechanical means.
2. If joint sides have absorbed oils, 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 10% of joint width.
2. POLYQuik-CJF is not recommended for joints greater than 1/2" (12.5mm) wide.
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. Concrete must be fully cured (28 days). Following ACI 302 recommendation, apply joint fillers as late as possible after construction (ideally 90 – 120 days to minimize additional slab

#### PRIMING

1. For most applications, priming is not required.
2. Where joints will be subject to continuous or protracted periods of water immersion, they must have their joint faces primed with Primer 733. Conduct a test application to verify adhesion.
3. When joint surfaces have been cleaned as described above, apply Primer 733 in a thin, uniform film (typically 1 – 2 mils). Avoid buildup of excess film thickness and application of primer beyond joint faces.
4. Allow approximately 15 – 30 minutes drying time; primer should be tack free before application of sealant.

#### MIXING

##### CARTRIDGES

Use a 30-element 10 mm diameter static mixer with a pneumatic or manual side-by-side gun.

##### 10 GALLON KITS

Use an AST or GMP Series plural-component metering system, or equivalent, at a 1 to 1 ratio. Thoroughly premix Part B with a drill and paddle to redistribute any settled material. Contact your WVCO representative for additional information on pumping equipment.

#### APPLICATION

1. POLYQuik-CJF can be pumped from pails using the equipment described above or dispensed from cartridges with a side-by-side manual or pneumatic gun. A 30-element nozzle with a 10 mm diameter is required to achieve a sufficient mix. The prepackaged restrictor plate is required for manual dispensing. When using cartridges, dispense enough material to ensure proper mixing before placing nozzle in the joint.
2. Use a 1-to-1 manual or pneumatic dispenser maximum of 80 psi).
3. Remove the retaining nut and caps from the cartridge.
4. Keep the cartridge upright during assembly.
5. Check alignment of plungers inside cartridge; level if necessary.
6. Place restrictor disc over cartridge openings.
7. Place mixing nozzle over restrictor disc and hand tighten nut.
8. Point cartridge upward and load into applicator gun.
9. While pointing cartridge upward, trigger handle to remove any air trapped in cartridges.
10. Point cartridge over waste container and dispense initial material (3 – 4 squeezes).
11. Fill the joint from the bottom up. Completely fill joint in 1 pass, overfilling it slightly. In cases where slab elevations are different, fill to the lower slab height.
12. 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).
13. 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 Reducer 990 or xylene immediately after use. Observe all precautions when handling these solvents. Cured material must be removed mechanically.

## HEALTH AND SAFETY

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

Part A contains diisocyanates (as MDI), polyisocyanate based on MDI, and diphenylmethane diisocyanate.

Part B contains N,N'-di(2-butyl)-4,4'-methylenedianiline, diethyltoluene-diamine, poly(oxypropylene)diamine, and diisobutyl ketone solution.

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