

Technical Data Sheet



W V C O

Willamette Valley Company

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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
- **High Abrasion Resistance** – Approved for hard-wheel traffic
- **USDA Approved For Incidental Food Contact** – Can be used in meat and poultry plants

PACKAGING

50 gallon drums
10 gallon (37.9 L) kits
600mL cartridges

COLORS

Gray, Black

YIELD

See chart below

SHIPPING, STORAGE & SHELF LIFE

Shelf life of 2 years 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	2200/1000
Service temperature , ° F (° C)	-40 to 350 (-4 to 177)
Gel time , sec	60 - 70
Trim Time , hrs	1 - 3
Tensile , psi (MPa), ASTM D 412	1840 (12.7)
Elongation , %, ASTM D 412	120
Hardness , Shore A, ASTM D 2240	85 - 90
Return to service , hrs	1 - 3

Coverage Rate-Linear Feet: Per 600mL Cartridge

Inches	¼	½	¾	1
¼	52	26	17	12
½	26	12	8	6
¾	17	9	6	4
1	13	7	4	3

CHEMICAL RESISTANCE

POLYQuik-CJF-CC is resistant to a wide variety of chemicals at varying concentrations. Please contact Willamette Valley for the chemical resistance specific to your application

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

4. Remove all old joint sealing material by mechanical means.
5. If joint sides have absorbed oils, cut away sufficient concrete to ensure a clean, fresh surface.

INSTALLATION

JOINT DESIGN

1. Use POLYQuik-CJF-CC only in joints where shrinkage and movement will be less than 10% of joint width.
2. POLYQuik-CJF-CC is not recommended for joints greater than 1/2" (12.5mm) wide.
3. Install POLYQuik-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. 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 Polyprime. Conduct a test application to verify adhesion.
3. When joint surfaces have been cleaned as described above, apply Polyprime in a thin, uniform film (typically 1– 2 mils). Avoid buildup of excess film thickness and application of primer beyond joint faces. See PolyPrime TDS for more details.
4. Allow approximately 45-60 minutes drying time; primer should be tack free before application of POLYQuik CJF-CC.

MIXING

CARTRIDGES

Use a 24-element 13mm diameter static mix tube with hand pump applicators. Use a 32-element 13mm diameter static mix tube a pneumatic or battery powered applicators.

10 GALLON KITS

Use an AST or GMP Series plural-component metering system, or equivalent, at a 1 to 1 ratio. Use a 32-element 13mm diameter static mix tube. Thoroughly premix the Resin with a drill and paddle to redistribute any settled material. Contact your WVCO representative for additional information on pumping equipment.

APPLICATION

1. POLYQuik-CJF-CC can be pumped from pails using the equipment described above or dispensed from cartridges with a side-by-side manual or pneumatic gun. A 32-element nozzle with a 13 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, pneumatic, or battery powered applicator. Start at a low setting or pressure and increase to desired flow rate. Start with a pressure setting under 40psi with pneumatic dispensers.
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 mix tube on cartridge, slide the retaining nut over the mix tube and hand tighten nut.
7. Point cartridge upward and load into applicator gun.
8. While pointing cartridge upward, trigger on to fill the mix tube with material, this is to remove air trapped in cartridges.
9. Point cartridge over waste container and dispense initial material (2-3 squeezes or ≈30mL).
10. 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. Avoid triggering on and off in the joint itself. Trigger on and off outside the joint.
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

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

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. PROPER APPLICATION IS THE RESPONSIBILITY OF THE USER. AS WITH ANY PRODUCT THE USE OF THIS PRODUCT IN A GIVEN APPLICATION MUST BE TESTED (INCLUDING BUT NOT LIMITED TO FIELD TESTING) IN ADVANCE BY THE USER TO DETERMINE SUITABILITY. TESTING IS THE REQUIREMENT OF BOTH ENGINEERS AND CONTRACTORS ALIKE. WVCO DOES NOT WARRANT THE APPLICATION UNDER ANY OR ALL CIRCUMSTANCES.

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