

WATERPROOFING

CCW-201

Description

CCW-201 is a multi-component, chemical-curing, low-modulus, non-sag, polyurethane sealant especially formulated for dynamically moving joints. CCW-201 is designed to provide long-term performance plus 50% movement capability and excellent weathering characteristics. CCW-201 offers primerless adhesion to commonly used construction materials.

CCW-201 is recommended for joints in tilt-up construction, pre-cast panels and other masonry surface, joints in metal curtain walls, sealing window and door perimeters, control joints, and for most horizontal joints in decks or pavements. CCW-201 is also used at all angle changes and inside corners including all penetrations and decks, walls, curbs, etc.

Installation

Joint Design: Width of joint should be 4 times the anticipated joint movement. Minimum width and depth of joint shall be ¼".

Surface Preparation: Joint surfaces must be dry, clean and free of dust, laitance, or contamination which may affect the adhesion of the sealant. Saw cut, grinding, wire brush, sand blast or solvent cleaning may be required.

In the event of mechanical cleaning, solvent wipe joints and allow solvent to evaporate.

Joint Backing: Backer rod shall be flexible, closed-cell polyethylene. The backer rod should be ⅛" to ¼" larger in diameter than the joint width. Use a blunt tool to install the backer rod to prevent puncture or damage. Do not stretch the rod when installing.

In the event depth of joint prevents use of a backer rod, bondbreaker tape must be installed to prevent three sided adhesion.

Angle Changes: Install a ¾" face, 45° cant of CCW-201 at all angle changes and inside corners including penetrations through the deck, walls, etc.

Depth of Sealant: Joint width ¼" to ⅜": sealant depth = joint width; joint width ½" to 1": sealant depth = one-half of joint width; joint width greater than 1": sealant depth shall be ½" to ⅝" (max).

Note: Due to the use of unusual building materials and surface treatments, it is recommended that field test be made to ensure proper adhesion. Marble and granite vary in porosity, requiring field test to determine acceptance of possible bleeding.

Mixing: Use a flat paddle with a heavy-duty drill motor. Mix the base until it is a smooth heavy liquid. Add the catalyst to the base and mix until the compound is completely blended. Mixing time is 6 minutes minimum. Scrape sides of container and the mixing paddle periodically during mixing. If adding a color pack, mix thoroughly until blended with no color streaks.

Do not exchange catalyst from one unit to another. Each unit has proper, premeasured amounts. Mix only complete units.

Sealant Application: Apply sealant with standard caulking equipment using sufficient pressure to ensure complete filling of the joint.

Tooling: Using proper shape and size tool for joint, tool joint immediately after application. Use sufficient pressure to ensure any air which may be in the sealant is forced out, and that sealant is pressed firmly against the sides of the joint.

Clean-Up: Remove uncured sealant and clean tools or equipment with xylene or toluene.

CAUTION: Xylene and toluene are combustible solvents. Observe solvent manufacturer's instructions and precautions.

Maintenance: If sealant is damaged, cut out damaged portion, apply primer and new sealant.

Coverage Rate

The following table is a guide to estimate the number of lineal feet of various size joints filled by one gallon of sealant.

Joint Depth	Joint Width					
	¼"	⅜"	½"	⅝"	¾"	1"
¼"	310	210	160	126	—	—
⅜"	—	142	—	85	70	—
½"	—	—	—	—	50	40

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Limitations

CCW-201 Sealant is not recommended for:

- Structural, butt, cap, heel or toe bead glazing with certain glass or acrylic sheets
- Joints less than ¼" wide x ¼" deep
- Continuous immersion without a primer (avoid continuous immersion applications if chlorine content is greater than 3 ppm)
- Painted surfaces without prior testing
- Damp or contaminated surfaces, especially joints with polysulfide residue
- Consult manufacturer when temperature is below 40°F
- Exposed traffic areas

Warnings and Hazards

Avoid breathing vapors. Avoid contact with skin and eyes. In the event of contact with the skin, clean off immediately and wash in warm soapy water. Refer to MSDS for other important warnings and product information.

Packaging

1.5-gallon kit (in 2-gallon pail)

Note: Sealant colors may be effected by acid type cleaning solutions.

Limestone color pack available upon request.

Shelf Life

At temperatures below 80°F, shelf life is 12 months in the original, unopened container.

Applicable Standards

Fed Specifications TT-S-00227E, Type II, Class A

ASTM C 920-79 Type M, Grade NS, Class 25

Typical Properties

Property	Method	Results
Elongation	ASTM D412	700%
Tensile Strength	ASTM D412	200 psi
Hardness	ASTM C661	30±5 Shore A
Tack Free	ASTM C679	12 hrs
Pot Life	ASTM C603	4-½ hrs
Sag (Slump)	ASTM C639	1/16" Maximum
Adhesion-in-peel	ASTM C794	20 lb/in
Adhesion after cyclic movement**	ASTM C719	No failures at ±50% movement
Weight Loss*	ASTM C792	3% wt loss
Crack & Chalk	ASTM C792	None
Staining	ASTM C510	No Stain

Values typical at standard conditions: 75°F, 50% RH
 * After Heat Aging **Primed Concrete

Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.