



WATERPROOFING

CCW-703 Liqueiseal

Description

CCW-703 Liqueiseal liquid-applied waterproofing membrane is a two-component polyurethane waterproofing system. It is self-curing, forming a seamless, impermeable coating that bonds tightly to an appropriate substrate, preventing the lateral transfer of water. Liqueiseal is easily mixed at the jobsite and applied using a squeegee, trowel, or spray equipment, providing a waterproof rubber membrane.

Liqueiseal is available in two viscosities (H & V) for application to Horizontal and Vertical surfaces. Typical applications are between structural slab and wearing course on parking garages, plaza decks, balconies, roof decks, terraces, mechanical equipment rooms, fountains, kitchens, wetrooms, malls and shower stalls. Liqueiseal is ideally suited for waterproofing on below-grade foundation walls, tunnels, planters and other areas where a seamless, elastomeric waterproofing is required.

Use Vertical Grade Liqueiseal for coating walls, vent pipes, air ducts, or other vertical surfaces. Trowel-applied Vertical Grade Liqueiseal will not sag or slide down the walls so proper thickness is maintained top to bottom.

Installation

Preparation

An inspection must be made of all surfaces on which the CCW-703 Liqueiseal waterproofing membrane is to be installed to ensure that the concrete deck is clean, dry, smooth, and free of contaminants. Do not apply over CCW-550 Primer.

Installation of Liqueiseal waterproofing membrane shall not commence until the area to receive the waterproofing has been cleared of all traffic and stored materials of other trades, and all surface dirt and dust removed by blowing with air under pressure, using a soft broom, or washing with potable water, followed by thorough drying.

Cracks, holes and other surface imperfections exceeding $\frac{1}{16}$ " in width or $\frac{1}{16}$ " in depth, as measured at 70°F or less and evident at the conclusion of the curing or drying period, shall be patched with Vertical Grade Liqueiseal before the deck is coated.

Vents and Drain Pipes

Voids or openings around vents, pipes, drains, or other protrusions shall be treated with Vertical-Grade Liqueiseal waterproofing membrane.

Expansion Joints

Install Sure-Seal® Elastoform Flashing 12" wide, centered over the joint, embedding the flashing in Vertical Grade Liqueiseal. Care must be taken not to stretch the flashing, and any entrapped air, wrinkles, or fishmouths should be worked out. As soon as possible, the entire expansion joint should be coated with Horizontal Grade Liqueiseal. Should the flashing at the expansion joint be exposed for a significant period of time, it may be necessary to clean the membrane with an approved solvent prior to applying the final coating of Liqueiseal.

Flashing should be installed in lengths as long as possible, lapped a minimum of four inches, and spliced using Sure-Seal EP-95 splicing cement, HP 250 Primer or Low VOC EPDM Primer.

Application

Application of Liqueiseal Waterproofing Membrane shall not commence unless the temperature is 40°F and rising, or if the weather is inclement or threatening.

Should the uncured Liqueiseal Waterproofing Membrane be exposed to rain prior to obtaining a surface cure, the water will penetrate the surface of the membrane and form craters. If this occurs, allow the waterproofing membrane to cure and dry thoroughly. Remove all dust and dirt and apply a top coating of Liqueiseal Waterproofing Membrane to fill all depressions in the membrane.

Mixing/Application

Combine the two components of Liqueiseal according to mixing instructions. When mixing Part A and Part B, use a variable-speed $\frac{1}{2}$ " drill with a Model PS Jiffy blade for a minimum of 5 minutes.

The mixed batch will provide a pot life of 1-2 hours at 40°F to 60°F and $\frac{1}{2}$ to 1 hour at 80°F.

As soon as Liqueiseal Waterproofing Membrane is mixed, apply directly to the concrete slab in a uniform application spreading with a squeegee or trowel. Controlled coverage is obtained by applying 4 gallons of Liqueiseal per measured 100 sq. ft., resulting in a seamless membrane approximately .055" +/- .005" thick.

All fluid-applied product application rates are based on theoretical coverage relative to the percentage of solids in the material. These are minimum application rates to achieve the required dry film thickness for the system and do not account for substrate condition or porosity.

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A thicker application of the product may be necessary to achieve the required dry film thickness for system relative to the substrate.

Coves and vertical surfaces should be coated with trowel-applied, Vertical Grade Liqueiseal prior to horizontal application. This initial coating should extend onto the horizontal surface two to three inches. When the deck waterproofing membrane is applied, it should be continued up and over the previously coated applied vertical surface.

Protection Course

For at least 24 hours after application of Liqueiseal Waterproofing Membrane, the surface should be kept free of all traffic. If the membrane is to be left uncovered for a significant period of time, install CCW Protection Board or CCW MiraDRAIN® drainage composite following the 24-hour cure time.

Limitations

- Do not apply Liqueiseal to a wet, damp or contaminated surface.
- Not recommended for exposed or wearing surface.
- If metal pan is used for concrete form, the metal pan must be vented.
- Surface temperature must be above 40°F and rising.
- Do not use Horizontal Grade Liqueiseal beneath rubberized asphalt membranes.

Packaging

Supplied in kit form:

3.5 gal Part A

0.5 gal Part B

45 lbs/Unit

Shelf Life: 12 months

CCW-703-H Self-Leveling

Property	Method	Typical Value
Color		Black
Tensile Strength	ASTM D412	155 psi (1.07 MPa) min
Elongation	ASTM D412	405% min
Hardness Shore A	ASTM D2240	15 min
Low Temp Brittleness	ASTM D746	-50°F (-46°C) min
Flash Point	ASTM D92	Greater than 300°F (150°C)
Permeability	ASTM E96 Proc. BW	0.1 perms
Solids Content	—	100%
Specific Gravity	—	1.1 g/cc
Density	—	9.3 lbs/gal
Pot Life @ 70°F (21°C)	—	1 hr

CCW-703-V Vertical Grade

Property	Method	Typical Value
Color		Black
Tensile Strength	ASTM D412	100 psi (0.69 MPa) min
Elongation	ASTM D412	180% min
Hardness Shore A	ASTM D2240	37 min
Low Temp Brittleness	ASTM D746	-50°F (-46°C) min
Flash Point	ASTM D92	Greater than 300°F (150°C)
Permeability	ASTM E96 Proc. BW	0.1 perms
Solids Content	—	100%
Specific Gravity	—	1.2 g/cc
Density	—	10.0 lbs/gal
Pot Life @ 70°F (21°C)	—	1 hr

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.