



CGC DUROCK™ BRAND LIQUID WATERPROOFING AND CRACK ISOLATION MEMBRANE

A liquid-applied waterproofing and crack isolation membrane and vapor retarder for use over approved substrates in wet areas.

- Anti-fracture protection up to 3 mm (1/8 in) over shrinkage and other non-structural cracks
- Can be rolled, brushed, troweled, and sprayed
- Fast drying time allows for quick turnaround time
- Low Permeance Rating (0.38 perms at 20 mil dry thickness) per ASTM E96 Procedure E
- Can be used in steam room/shower without additional vapor retarder
- Bonds directly to stainless steel, PVC, and ABS drains
- One coat on vertical surfaces for smooth substrates such as CGC Fiberock® Brand Tile Backerboard
- Two coats on rough substrates such as CGC Durock® Brand Cement Board, and for all horizontal applications
- Suitable for waterproofing floors, walls and countertops

PRODUCT DESCRIPTION

CGC Durock™ Brand Liquid Waterproofing and Crack Isolation Membrane is an acrylic polymer based product for both commercial and residential tile and stone applications. Suitable substrates include concrete, masonry, cement backerboard, gypsum-fiber panel and gypsum-based cement topping. It can also be used as shower pan liner in accordance with Section 417.5.2.5 of the IPC and Section 408.7 of the UPC. The product changes colour when cured.

The CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane has the lowest permeance rating (0.38 perms at 20 mil dry thickness) of any liquid waterproofing membrane when tested to ASTM E96 Procedure E. It is ideal not only for showers and other wet areas, but for continuous-use residential and commercial steam showers without additional vapour retarder.

The CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane meets the permeance rating requirement of 0.5 perms or less and can be used in steam showers/rooms in accordance with Tile Council of North America (TCNA) *2016 Handbook for Ceramic, Glass, and Stone Tile Installation* (SR 613-16 and SR614-16).

CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane achieves "high performance" in system crack resistance test at 30 mils dry thickness when tested in accordance with ANSI A118.12. It can be used for anti-fracture protection up to 3 mm (1/8 in.) over shrinkage and other non-structural cracks.

PRODUCT DATA

Sizes and Packaging:

- 3.78 L (1 gallon)
- 13.2 L (3.5 gallons)

Product conforms to ANSI A118.10 Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installation and ANSI A118.12 Crack Isolation Membranes for Thin-set Ceramic Tile and Dimension Stone Installation.

COMPOSITION AND MATERIALS

CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane is an acrylic polymer based elastomeric membrane for residential and commercial tile and stone application.

WARRANTY AND MATERIALS

Products and systems provided CGC Inc. are warranted to be free from defects in material and workmanship. Contact a CGC Inc. office for complete warranty details.

INSTALLATION

Walls (including steam shower walls) and floors:

Waterproofing

- A. Select code-approved wall and floor substrate suitable for wet areas. All surfaces must be dry, clean, and free of contaminants that would prevent a good bond.
- B. **Pre-treat construction joints:** Fill all substrate cracks, cold joints, control joints with suitable materials.
- C. **Pre-treat backerboard joints:** Apply 51 mm (2 in.) wide CGC Durock™ Brand Tile Backer Tape at all wall-to-wall, floor-to-floor and wall-to-floor joints and finish the joints with tile-setting mortar.
- D. **Pre-treat drains:** Fill space between drain pipe and substrate with foam backer rod and sealant. Apply two liberal coats of CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane over and around drain flange.
- E. For rough substrates such as CGC Durock® Cement Board, apply 1st coat at wet film thickness of 15–20 mil using 12.7 mm (1/2 in.) nap roller or 5 mm x 5 mm (3/16 in. x 3/16 in.) V-notch trowel. After the first coat dries, inspect the coating and fill any voids or pinholes. Apply a second coat at right angle to the first coat with a wet film thickness of 15–20 mil.
- F. For smooth substrates such as CGC Fiberock® Tile Backerboard, one coat at wet film thickness of 15–20 mil may be used on vertical surface. Check coverage to fill any voids or pinholes. For all horizontal surfaces, use two coats of 15–20 mil wet film thickness for each layer.
- G. For water resistant substrates such as CGC Durock™ Brand Glass-Mat Tile Backerboard and CGC Durock™ Brand UltraLight Foam Tile Backerboard, first treat the joints as described in C above; then use two liberal coats of CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane to treat the joints and fastener heads.
- H. Overlap all adjoining sections of the membrane by a minimum of 51 mm (2 in.).
- I. For steam shower walls, use two coats of 15–20 mil wet film thickness for each layer; no additional vapor retarder is needed.
- J. An airless sprayer may be used for the waterproofing application. Use professional equipment that meets or exceeds the following rating when spraying through 15.24 m (50 ft.) of 6.4 mm (1/4 in.) I.D. high-pressure hose: output at least 1 gal. per minute; pump pressure rated at 18.6–20.7 MPa (2700–3000 psi); and accommodates a 0.8 mm (0.031 in.) spray tip at 13.8 MPa (2000 psi) (Graco® MARK V™ or equivalent). Use a 30-mesh filter located in the high-pressure manifold. Use a spray-tip orifice between 0.6–0.8 mm (0.023–0.031 in.)
- K. Use tile-setting mortar (as specified in ANSI A118.1, A118.4, A118.11 or A118.15) to set tiles.

Crack Isolation

- L. For crack isolation applications, first treat the joints as described in C above; then use two liberal coats of CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane to cover the whole surface, each coat at 25–30 wet mils thickness.

The combined wet film thickness shall not exceed 100 mils.

LIMITATIONS

1. The membrane must be covered by tile or stone.
2. The product is not intended for extended exterior exposure over a month before covering is applied.
3. Do not use on surfaces exposed to positive or negative hydraulic pressure.
4. Do not use as adhesive between two impervious layers.
5. Maximum moisture content in the concrete/mortar bed substrate should not exceed 283 µg/(s m²) (5 lb/1000 ft²/24 h) per ASTM F-1869 or 75% relative humidity as measured by moisture probes.

TECHNICAL DATA

Property	ANSI/ASTM Test	CGC Durock™ Liquid Waterproofing and Crack Isolation Membrane
Drying time [21°C(70°F)/50%RH]	N/A	0.5–1.5 hr
Fungus and Microorganism resistance	ANSI A 118.10/ANSI 118.12	No mould growth
Seam strength	ANSI A118.10/ASTM D751	>143 kg/m (8 lb./in)
Breaking strength	ANSI A118.10/ASTM D751	>1172 kPa (170 psi)
Dimensional stability	ANSI A118.10/ASTM D1204	<0.7%
Waterproofness	ANSI A118.10/ASTM D4068	Pass
Shear strength to ceramic tile and cement mortar	ANSI A118.10/ANSI A118.12/ASTM C482	>35153 kg/m ² (50 psi)
Water vapor permeance (20 mil dry film thickness)	ASTM E96 (Procedure E 100°F, 90%RH)	0.38
Floor installation service rating	ASTM C627	Extra heavy
System crack resistance	ANSI A118.12	High performance at 30 mils dry
Point load	ANSI A118.12	>1000 lbs

COVERAGE

Waterproofing: For smooth substrates, 7.4–9.3 m² (80–100 ft²) gallon with one coat, 3.7–4.6 m² (40–50 ft²)/gallon with two coats, each coat at wet film thickness 15–20 mil. Coverage will be lower for porous or rough substrates.

Crack isolation: For smooth substrates, 2.3 m²–2.8 m² (25–30 ft²)/gallon with two coats, each coat at 25–30 mils wet thickness. Coverage will be lower for porous or rough substrates.

CLEANING

Clean tools with water when wet.

PRODUCT INFORMATION

See cgcinc.com for the most up-to-date product information.

NOTE

Products described here may not be available in all geographic markets. The information in this document is subject to change without notice. CGC Inc. assumes no responsibility for any errors that may inadvertently appear in this document. Consult your CGC Inc. sales office or representative for information.

DANGER!

Do not handle until all safety precautions have been read and understood. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If swallowed, inhaled or skin irritation occurs, get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, state and federal. For more information call Product Safety: 1-800-507-8899 or see the SDS at cgcinc.com

KEEP OUT OF REACH OF CHILDREN.

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We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety/industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read Safety Data Sheets and related literature on products before specification and/or installation.

800.387.2690
cgcinc.com

Manufactured by
CGC Inc.
350 Burnhamthorpe Rd. W., 5th Floor
Mississauga, ON L5B 3J1

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