



# QUIK-SHIELD 148 CDN

## Low GWP Spray Foam

**QUIK-SHIELD® 148 CDN** is a closed-cell spray foam insulation, using a Low Global Warming Potential (GWP) blowing agent, free of Hydrofluorocarbons (HFCs) meeting GWP initiatives. It is a high-performance insulation and air barrier, ideal for residential and commercial construction. QUIK-SHIELD® 148 CDN increases jobsite efficiency, decreases labour and overhead costs, and delivers a lower install cost.

### TYPICAL PHYSICAL PROPERTIES

Properties achieved under specified conditions prescribed in the standards. Actual field conditions may cause variation in properties.

	PROCEDURE	VALUES
Air Permeance (L/s @75 Pa)	ASTM E-2178	0.004
Compressive Strength (kPa) (psi)	ASTM D-1621	244 (35.4)
Core Density nominal, (kg/m <sup>3</sup> )	ASTM D-1622	34.1
Dimensional Stability (% @ -20°C) (% by Volume) (% @ 80°C) (% @ 70°C, 97+3%RH)	ASTM D-2126	-1.08 +0.6 +3.14
Fungi Resistance	ASTM C1338	No Growth
Open-Cell, content (%)	ASTM D-6226	<10
Surface Burning	CAN/ULC-S102	PASS
Tensile Strength (kPa) (psi)	ASTM D-1623	270 (39)
Human Health Risk Assessment of VOC Emissions-Time to Re-occupancy	CAN/ULC-S744	1-day
Water Absorption (% by Volume)	ASTM D-2842	0.7
Water Vapour Permeance (50mm ng/Pa*s+m2)	ASTM E-96	49

### LONG TERM THERMAL RESISTIVITY (LTTR)

RSI @ 50mm (m <sup>2</sup> C/W)	CAN/ULC S770-09	1.8
R-value @ 50mm (°F,ft <sup>2</sup> ,h/Btu)	CAN/ULC S770-09	10.2
RSI @ 75mm (m <sup>2</sup> C/W)	CAN/ULC S770-09	2.76
R-value @ 75mm (°F,ft <sup>2</sup> ,h/Btu)	CAN/ULC S770-09	15.7

### HANDLING PROPERTIES at 77°F (25°C)

	A-SIDE (ISO)	B-SIDE (RESIN)
Specific Gravity	1.23	1.19
Viscosity, cps	250±50	450cP

### RECOMMENDED STORAGE AND SHELF LIFE

- Storage temperatures 10-32°C (50-90°F). See back for preconditioning of material
- 6 month shelf life (resin) 12 month shelf life (iso) from date of manufacture (unopened containers)
- Keep container tightly sealed
- Store out of direct sunlight, in a cool dry place, avoid freezing

### PRODUCT INFORMATION

LEED	QUIK-SHIELD® 148 CDN has a minimum of 11% total renewable/recycle content, 5.2% pre-consumer recycled, 3.9% post-consumer recycled, 1.9% rapidly renewable, and IEQ Credit-Low Emitting
Global Warming Potential (Low GWP)	QUIK-SHIELD® 148 CDN meets Low GWP requirements per Environment and Climate Change Canada's (ECCC) Regulations Amending the Ozone-depleting Substances and Halocarbon Alternatives Regulations (ODSHAR)
Product Colour	Pearl Gray (UV exposure will cause discolouration. Discolouration by itself is not a sign of product damage)
Product Packaging	275 Gallon Tote and 55 Gallon Drum

### APPROVALS / COMPLIANCE

QUIK-SHIELD® 148 has been tested by a third party laboratory.

Conforms to CAN/ULC S705.1-15 referenced in the National Building Codes of Canada and provincial codes

ULC ER-R40268 - Spray-Applied Rigid Polyurethane Foam Insulation

CAN/ ULC S770-09 as referenced in 2015 and above in the National Building Codes of Canada

CAN/ULC S-705.2 - Certification Organization (CO) - Caliber Quality Solutions Inc.



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**PREPARATION OF SUBSTRATES**

Providing the proper substrate is the responsibility of the owner, the owner’s appointed representative, the contractor, and/or inspector. The following are manufacturer’s recommendations. However, other preparation techniques may be required given unique/specialized application circumstances. Contact **SWD Technical Support at 888-380-2022** for additional questions.

It is recommended to remove dust, dirt, oil, paint, and alternative polymers from all surfaces prior to applying SWD products.

See SWD specifications or SPFA guidelines for further details on substrate prep.

Wood	<ul style="list-style-type: none"> <li>• Ensure wood is relatively dry and protect surfaces from contamination. For moisture content exceeding 19%, contact SWD Technical Support.</li> <li>• Water or oil present may cause poor adhesion or excessive foaming.</li> <li>• Fill large voids with appropriate backer rods or appropriate fillers.</li> <li>• If additional information is required, contact SWD Technical Support.</li> </ul>
Steel & Other Metals	<ul style="list-style-type: none"> <li>• It is the responsibility of the contractor/end user to determine proper adhesion and suitability through field testing. Blasting and/or priming is not always required. If additional information is required, contact SWD Technical Support.</li> </ul>
Concrete	<ul style="list-style-type: none"> <li>• If applying foam to concrete, the concrete surface should be structurally sound, clean, and curing for 28 days.</li> <li>• Fill large voids with appropriate backer rods or appropriate fillers.</li> <li>• Blasting and/or priming is not always required. It is the responsibility of the contractor/end user to determine proper adhesion and suitability. If additional information is required, contact SWD Technical Support.</li> </ul>
Previously Applied Foam or Other Polymers	<ul style="list-style-type: none"> <li>• As practical, remove previously applied foam and other polymer products. Application of product over existing materials should be performed only after adhesion/compatibility is verified by the contractor and accepted by the building owner or owner’s appointed representative.</li> </ul>
Wiring and Plumbing	<ul style="list-style-type: none"> <li>• QUIK-SHIELD® 148 CDN is fully compatible with CPVC piping systems (Paschal Engineering Study for the SPFA).</li> <li>• QUIK-SHIELD® 148 CDN is compatible with typical electrical wiring coverings. (NEMA Bulletin 95)</li> </ul>

**PROCESSING**

Preconditioning	1. It is recommended to precondition material to 13-20°C (60-80°F) prior to application. Material may thicken at lower temperatures which can cavitate pumps.
Mixing	<ol style="list-style-type: none"> <li>2. Mixing of B-Side (resin) is not required.</li> <li>3. Mixing of A-Side (iso) is not required.</li> </ol>
Pressure Settings	<ol style="list-style-type: none"> <li>4. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000 psi dynamic pressure.</li> <li>5. Static pressure is typically set between 1100-1400psi.</li> <li>6. Dynamic pressure typically operates at a minimum of 1000psi.</li> </ol>
Temperature Settings	7. Primary heaters and hose heaters are typically set between: summer 43-52°C (110-125°F), winter 38-66°C (100-150°F). Higher temperatures are utilized in winter months, lower temperatures are utilized in summer months.

Proper application temperature setting is the responsibility of the end user. Equipment temperature varies and can be dependent on equipment, hose length, elevation, ambient temperature, substrate temperature, humidity, and other factors. If additional information is required, refer to QS148 CDN Processing Packet found on [swdurethane.com](http://swdurethane.com) and the SWD mobile app, or contact **SWD Technical Support at 888-380-2022**.

**APPLICATION**

1. Clean surfaces according to “Preparation of Substrates” section.
2. If priming, follow manufacturer recommendations. Ensure primer is adequately cured prior to application.
3. Substrate temperatures should be between: summer -4-54°C (25-130°F), winter -21-21°C (-5-70°F). Flashing is recommended at lower temperatures. Higher and lower application temperatures are possible, contact an SWD representative for more details.
4. Flush an adequate amount of material through the lines/gun prior to spraying desired surface when changing between systems. Flush amount will be dependent on prior system used. If additional information is required, contact an SWD representative for more details.
5. Do not recirculate.
6. As per CAN/ULC S-705.2, you should not exceed a 50mm (2”) lift per pass. Up to three 50mm (2”) lifts can be applied at a time without having to wait for the foam to cool. It is the responsibility of the approved contractor to determine if the foam has cooled sufficiently for additional passes. If applying more than three 50mm (2”) lifts at a time, SWD recommends waiting a minimum of 20 minutes for the foam to cool.
7. Before application, test material to ensure that material sprays, cures, and hardens properly.
8. Inspect applied material intermittently to ensure no problems exist. If problems are detected, discontinue application and inspect all substrates, equipment, gun, and liquid material for problem source(s).

**CLEANING AND MAINTENANCE**

1. Spray equipment must be maintained in proper operating condition. Failure to adequately maintain spray equipment may result in poor product performance. Refer to your equipment manufacturer’s maintenance procedures for more details.
2. Contact SWD for long-term equipment storage recommendations.



The information herein is believed to be reliable; however, unknown risks may be present. SWD Urethane makes no warranty, expressed or implied, concerning this product’s merchantability or fitness for any particular use. The product will meet the written liquid component specifications as indicated on the technical data sheet published at the time of the purchase. The entirety of SWD Urethane’s responsibility is limited only to the cost of the SWD material. The foregoing constitutes SWD Urethane’s sole obligation with respect to damages, whether direct, incidental or consequential, resulting from the use or performance of the product.

Safety is the responsibility of the owner, the owner’s appointed representative, the contractor, and/or inspector. Become familiar with local, state, and federal regulations regarding chemical health, safety, and handling. For more information consult the product SDS, contact the SPFA ([www.sprayfoam.org](http://www.sprayfoam.org)) or the ACC ([www.spraypolyurethane.org](http://www.spraypolyurethane.org)).