QUIK-SHIELD 148 CDN

Ultra-Efficient Low GWP Spray Foam

QUIK-SHIELD® 148 CDN is an ultra-efficient, closed-cell spray foam insulation, using a Low Global Warming Potential (GWP) blowing agent, free of Hydrofluorocarbons (HFCs). It is ideal for high–performance and air barrier insulation applications in 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^3)	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^{2}C/W)	CAN/ULC S770-09	1.8
R-value @ 50mm (°F,ft^2,h/Btu)	CAN/ULC S770-09	10.2
RSI @ 75mm (m^{2}C/W)	CAN/ULC S770-09	2.76
R-value @ 75mm (°F,ft^2,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.

CALIBER TRUST YOU CAN BUILD ON

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	• Ensure wood is relatively dry and protect surfaces from contamination. For moisture content exceeding 19%, contact SWD Technical Support. • Water or oil present may cause poor adhesion or excessive foaming. • Fill large voids with appropriate backer rods or appropriate fillers. • If additional information is required, contact SWD Technical Support.
Steel & Other Metals	• 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.
Concrete	• If applying foam to concrete, the concrete surface should be structurally sound, clean, and curing for 28 days. • Fill large voids with appropriate backer rods or appropriate fillers. • 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.
Previously Applied Foam or Other Polymers	• 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.
Wiring and Plumbing	• QUIK-SHIELD® 148 CDN is fully compatible with CPVC piping systems (Paschal Engineering Study for the SPFA). • QUIK-SHIELD® 148 CDN is compatible with typical electrical wiring coverings. (NEMA Bulletin 95)

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	2. Mixing of B-Side (resin) is not required. 3. Mixing of A-Side (iso) is not required.
Pressure Settings	4. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1000 psi dynamic pressure. 5. Static pressure is typically set between 1100-1400psi. 6. Dynamic pressure typically operates at a minimum of 1000psi.
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 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.