



QUIK-SHIELD HYDRA XL

Closed Cell- HFO Spray Foam

QUIK-SHIELD® Hydra XL is a closed-cell spray foam insulation, using Honeywell's Solstice® liquid blowing agent which has a GWP of 1, 99.9% lower than traditional blowing agents meeting GWP initiatives. It is a high-performance insulation and air barrier, ideal for residential and commercial construction. QUIK-SHIELD® HYDRA XL increases jobsite efficiency, decreases labor and overhead costs, and delivers a lower install cost.

TYPICAL PHYSICAL PROPERTIES

Properties achieved in a lab environment at 77°F. Field conditions may cause variation in properties.

	PROCEDURE	VALUES
Air Permeance at 1" (L/s.m²)	E-2178	<0.02
Closed-Cell, content (%)	E-2178	>90
Compressive Strength (psi)	D-1621	>15
Core Density (nominal, lb/ft³)	D-1622	1.8
Dimensional Stability (%)	D-2126	<15
Tensile Strength lb/in² (psi)	D-1623	>15
Water Vapor Permeability (perm-inch)	E-96	1.72
Fungi Resistance	C-1338	No Growth

THERMAL RESISTANCE (R-Value) (°F. ft².h/Btu)

R-Value at 1"	7.5
R-Value/inch at ≥ 3.5"	7.5

THERMAL/IGNITION BARRIERS

	PROCEDURE	VALUES
Thermal Barriers ¹	NFPA 286	Pass without an intumescent coating

1. For information on thermal and ignition barriers please refer to DrJ Engineering Technical Evaluation Report# 0478 (CCRR-0478)

LIQUID PROPERTIES at 77°F (25°C)

	A-SIDE (ISO)	B-SIDE (RESIN)
Specific Gravity	1.23	1.21
Viscosity (cPs)	250±50	550±100

RECOMMENDED STORAGE AND SHELF LIFE

- Storage temperatures 50-80°F (10-27°C). See back for preconditioning of material.
- 6 month shelf life from date of manufacture (unopened containers)
- Keep container tightly sealed
- Store out of direct sunlight, in a cool dry place, avoid freezing





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® HYDRA XL is fully compatible with CPVC piping systems (Paschal Engineering Study for the SPFA). • QUIK-SHIELD® HYDRA XL is compatible with typical electrical wiring coverings. (NEMA Bulletin 95)

PROCESSING

Preconditioning	1. If the drum temperature is 80°F (26.6°C) or higher, use caution when opening the drum! The contents will be under pressure. 2. It is recommended to precondition material to 60-80°F (16-27°C) prior to application. Material may thicken at lower temperatures which can cavitate pumps.
Mixing	3. Mixing of B-Side (resin) is not required. 4. Mixing of A-Side (iso) is not required.
Pressure Settings	5. Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1100 psi dynamic pressure. 6. Static pressure is typically set between 1200-1600psi.
Temperature Settings	7. Primary heaters and hose heaters are typically set between 115-145°F (45-63°C). 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 QUIK-SHIELD HYDRA XC Processing Packet found on swdurethane.com and the SWD mobile app, or contact SWD Technical Support at 888-380-2022.

APPLICATION

1. Do not spray foam when substrate surface temperatures are less than 5°F above the dew point.
2. Clean surfaces according to "Preparation of Substrates" section.
3. If priming, follow manufacturer recommendations. Ensure primer is adequately cured prior to application.
4. Substrate temperatures should be between 20F-120°F (-6C-49°C) Flashing is recommended at lower temperatures. Contact SWD Technical Support for more details.
5. 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 SWD Technical Support for more details.
6. Do not recirculate.
7. QUIK-SHIELD® HYDRA XL shall not exceed 4" per lift, with a minimum 20-30 minute wait time between lifts.
8. Before application, test material to ensure that material sprays, cures, and hardens properly.
9. 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) or the ACC (www.spraypolyurethane.org).

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