



QUIK-SHIELD 941

Polyurea Hybrid Elastomer

QUIK-SHIELD® 941 is a 100% solids, aromatic, polyurea hybrid coating. With high tensile strength along with chemical, corrosion and abrasion resistance it makes QUIK-SHIELD® 941 a top elastomer in the market.

TYPICAL PHYSICAL PROPERTIES

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

	PROCEDURE	VALUES
Abrasion Weight Loss (CS-17, 1k cycles, mg)	D-4060	38
Elongation (%)	D-412	250±25
Hardness	Shore A	90
Tensile Strength (psi)	D-412	2400±200
Water Vapor Permeance (perms)		
At 40 dry mils	E-96	1.04
At 60 dry mils	E-96	0.81
At 90 dry mils	E-96	0.54

APROXIMATE COVERAGE

Mils/100 sqft/gallon	16 mils
60 Mils/100 sqft	3.75 gallons

HANDLING PROPERTIES at 77°F (25°C)

	A SIDE (ISO)	B SIDE (RESIN)
Specific Gravity	1.10	1.02
Viscosity, cps	450	1000±200

REACTIVITY PROFILE at 77°F (25°C)

Cure Time (hours)	24
Tack Free Time (sec)	30-60

RECOMMENDED STORAGE AND SHELF LIFE

- Storage temperatures 50-100°F (10-38°C) 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

High Thermal Stability	Withstands temperatures from -30-230°F (-34-110°C) (in cured state)
Product Color	Black, White, Light Gray, Dark Gray, Green, Tan, Blue, Red, Yellow, Orange, Brown (Colors can vary slightly from each container)
Product Packaging	275 Gallon Tote and 55 Gallon Drum



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.

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.

Spray Foam	<ul style="list-style-type: none"> Coating should be applied 2-24 hours after installation of foam. Beyond 24 hours, contact SWD for recommendations. Avoid contaminating surface of foam after foam installation. Blow off surface of foam, as necessary, before application of coating.
Steel & Other Metals	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.
Other Substrates	<ul style="list-style-type: none"> It is the responsibility of the contractor/end user to determine proper adhesion and suitability. Contact SWD for recommendations.

PROCESSING

Preconditioning	<ol style="list-style-type: none"> It is recommended to precondition material to 70-80°F (21-27°C) prior to application. Material may thicken at lower temperatures which can cavitate pumps.
Mixing	<ol style="list-style-type: none"> We recommend using an electric driven drum mixer (Krause & Becker 69856 Dual Speed Mixer or equivalent) in the center bung of drum and ensure that the mixer is securely attached. Recommended configuration – 400RPM-800RPM, 120V, 10A. Pneumatic configuration – 400RPM-800RPM, 100psi inlet, 12cfm. Recommended folding blade arrangement: 6" blade top, 6" blade middle, 8" blade bottom. Mix B-Side (resin) for 30 minutes before application. Mix B-Side (resin) during application. Mixing of A-Side (iso) is not required.
Pressure Settings	<ol style="list-style-type: none"> Product should be sprayed with a high pressure plural-component proportioner capable of a minimum of 1800psi dynamic pressure. Static pressure is typically set between 2000-3000psi.
Temperature Settings	<ol style="list-style-type: none"> Primary heaters and hose heaters are typically set between 140-170°F (60-77°C). Drum heaters set at 70-80°F (21-27°C) are recommended for temperatures lower than 60°F (16°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 contact **SWD Technical Support at 888-380-2022**.

APPLICATION

- Clean surfaces according to "Preparation of Substrates" section.
- If priming, follow manufacturer recommendations. Ensure primer is adequately cured prior to application.
- Ambient/substrate temperatures should be between 32-130°F. Higher and lower application temperatures are possible, contact SWD representative for more details.
- 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. Contact an SWD representative for more details.
- Before application, test material to ensure that material sprays, cures, and hardens properly.
- 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).
- Never allow liquid components to run out.
- Recoat window is less than 12 hours after installation of initial coat. Beyond 12 hours, contact SWD for recommendations.
- Recoat preparation techniques may include abrasion, and/or solvent wiping.

CLEANING AND MAINTENANCE

- 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.
- 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).