



QUIK-SHIELD 1939

High-Performance Acrylic Coating

QUIK-SHIELD® 1939 is a high-performance acrylic coating designed for upgradeable roofing systems. Its durability enables it to be applied as a thin, single coat for spray foam roofing systems. It is a heavy duty, solar-reflective, and energy efficient roofing coating.

TYPICAL PHYSICAL PROPERTIES

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

	PROCEDURE	VALUES
Elongation at Break (% at 0° F)	D-2370	255
Elongation at Break (% at 75° F)	D-412	355
Foam Adhesion Failure, Dry (peak)	D-413	6.1
Foam Adhesion Failure, Wet (peak)	D-413	3.5
Hardness	Shore A	60
Low Temperature Flexibility (-15° F, 3000 hrs)		Pass
Solids by Weight (%)		65
Solids by Volume (%)		55
Surface Burning Flame (index)	E-84	10
Surface Burning Smoke (index)	E-84	15
Tensile Strength (psi at 0° F)	D-2370	299
Tensile Strength (psi at 75° F)	D-412	280
Viscosity (cP #6 Spindle @ 50 rpm)	D-2196	3000-5000
Water Vapor (perms at 20 mils)	E-96	3.5
Water Absorption (% 168 hr at 75° F)	D-2842	5

RECOMMENDED STORAGE AND SHELF LIFE

- Storage temperatures 50-100°F (10-38°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.

PRODUCT INFORMATION

Coating Reflectance	Solar Reflectance Index 103%, Solar Reflectance 82%, Thermal Emittance 91%
Product Colors	White, Buff, Tan, Light Gray, Dark Gray (Colors can vary slightly from each batch)
Product Packaging	275 Gallon Tote, 55 Gallon Drum, and 5 Gallon Pail

APPROVALS/COMPLIANCE

General Purpose Flame Retardant Coating



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 for technical questions.

Remove dust, dirt, oil, latents, paint, and alternative polymers from all surfaces prior to applying SWD products.

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"> Metal surfaces should be free of all rust, scale, dirt, grease, oil, chalking, paint or other contaminants. It is the responsibility of the contractor/end user to determine proper adhesion and suitability. Contact SWD for recommendations.
Concrete	<ul style="list-style-type: none"> The concrete surface should be fully cured, structurally sound, clean, and dry.
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.
Other Substrates	<ul style="list-style-type: none"> The concrete surface should be fully cured, structurally sound, clean, and dry.

PROCESSING

Mixing	Mix as necessary. Separation might occur when product is stored for an external period of time.
Equipment	Can be applied by brush, roller, or airless sprayer High pressure airless sprayer: <ul style="list-style-type: none"> Minimum 1000 psi No filter Hose 3/8" minimum spray line Tip 619-645

Proper application settings is the responsibility of the end user. If additional information is required, contact
SWD Technical Support at 888-380-2022.

APPLICATION

- Clean surfaces according to "Preparation of Substrates" section.
- Ambient/substrate temperatures should be between 50-130°F. Higher and lower application temperatures are possible, contact SWD technical support 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 technical support for more details.
- Before application, test material to ensure that material sprays and cures 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.
- Allow product to cure a minimum of 4 to 6 hours before applying additional coat layer.

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.

WARRANTY

SWD Urethane offers 5, 10, 15, and 20 year roof warranties. All roof warranties must be registered with SWD Urethane. See SWD Limited Warranty - Roofing Systems and Coatings for required coating thickness and additional details.



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).