



# Bayseal®

## Closed-Cell Roofing Foam

BaySeal Roofing Foam is a two-component, closed-cell spray applied polyurethane foam system. BaySeal Roofing Foam includes an A component (polymeric diisocyanate) and a B component (a combination of polyols, additives, and HFO blowing agent). BaySeal Roofing Foam comes in Regular/Summer, Winter, and Intermediate speeds.

### Benefits

- High Compressive Strengths
- Broad Range of Application Temperatures
- Self-Flashing
- Seals Cracks, Crevices, and Holes

### Recommended Uses

- Roofing Systems
- Agricultural Applications
- Tank Insulation
- Air barrier Systems

### Physical Properties\*

Property	Test Method	2.5 pcf	2.7 pcf	3.0 pcf
R Value (at 1 inch, aged)	ASTM C-518	6.25	6.25	6.25
Compressive Strength (nominal)	ASTM D-1621	45 psi	50 psi	60 psi
Core Density (nominal)	ASTM D-1622	2.5 pcf	2.7 pcf	3.0 pcf
Closed-Cell Content	ASTM D-2856	>90%	>90%	>90%
Tensile Strength	ASTM D-1623	90-100 psi	90-100 psi	90-100 psi
Water Absorption	ASTM D-2842	2%	2%	2%
Moisture Vapor Transmission	ASTM E-96	1.0 perm @1"	1.0 perm @1"	1.0 perm @1"
Dimensional Stability	ASTM D-2126	% Change in Volume		
28 days at 158°F 100% RH		2.4%	2.4%	2.4%
28 days at 200°F / AMB		3.1%	3.1%	3.1%
Surface Burning Characteristics	UL 723	FSI <75	FSI <75	FSI <75

\*These terms are provided as general information only. They are approximate values and are not part of the product specifications.

### Application Information

BaySeal Roofing Foam is for professional use only. Applications should have a minimum pass thickness of 3/4 inches and a maximum pass thickness of 1 1/2 inches, with a minimum of 30 minutes between passes.

### Storage

All BaySeal products are factory sealed and should remain sealed until they are ready to be used. Keep drums closed during storage and out of a humid

environment. Keep drums out of direct sunlight. Store drums at 70°F to 80°F for a minimum of 48 hours before use. Materials in containers should be maintained at 65°F to 85°F while in use. Conditioned trailers or tanks may be necessary. Material temperature should be confirmed with a thermometer or an infrared gun. If component temperatures are below suggested range, the increased viscosity of the components may cause pump cavitation, resulting in poor spray foam application. If component temperatures are above suggested range, diminished yield may be experienced due to loss of blowing agent.

## Processing

2:1 transfer pumps are recommended for material transfer from container to proportioner. The plural component proportioner must be capable of supplying each component within  $\pm 2\%$  of the desired 1:1 mixing ratio by volume. Hose heaters should be set to deliver 110°F to 125°F materials to the spray gun. These settings will ensure thorough mixing in the spray gun mix chamber in typical applications. Optimum hose pressure and temperature will vary with equipment type and condition, ambient and substrate conditions, and the specific application.

Do not configure equipment to recirculate BaySeal Roofing Foam components from proportioner back into drum. Do not recirculate or mix other suppliers' "A" or "B" component into BaySeal Roofing Foam containers. Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the A and B components.

Processing Parameters	
Pre-heater Temperature	A: 110-120°F B: 120-130°F
Hose Temperature	110-120°F
Pressures	1000-1200 psi (dynamic)*
Mix Ratio Parts	1:1 volume A to B
Viscosity at 70°F	A: 150-250 cps B: 700 $\pm$ 100 cps
Shelf Life	6 months at 65°F to 80°F

\*Dependent upon hose length

Processing Designation	Surface Temperature
Winter	50-75°F
Fall	70-100°F
Summer	100-120°F

It is the responsibility of the applicator to properly interpret equipment technical literature, particularly information that relates to the acceptable combinations of gun chamber size, proportioner output and material pressures. The relationship between proper chamber

size and the capacity of the proportioner's pre-heater is critical. Mechanical purge spray guns (specifically direct impingement or DI type) are recommended for highest foam quality.

## Environmental & Substrate Conditions

Applicators should recognize and anticipate climatic conditions prior to application to ensure the highest quality foam and maximize yield. Ambient air and substrate temperatures, moisture, and wind velocity are important for the creation of high quality foam. For best results, the BaySeal system should only be spray-applied to substrates when ambient air and surface temperatures are between 45°F to 120°F. All application substrates must be dry and free from moisture in the form of rain, fog, frost, dew, or high humidity (>85% R.H.), to avoid adversely affecting the properties of the finished foam product. Wind velocities in excess of 12 miles per hour may affect foam surface, cure and physical properties and will cause overspray. Precautions must be taken to prevent damage to adjacent areas from overspray.

## Health and Safety

When spraying or handling BaySeal A and B components, health and safety should be a priority. Applicators should use personal protective equipment, including non-porous fabric coveralls, nitrile gloves, protective eyewear, and Supplied full face fresh air respirator while spraying. Avoid all contact with skin and eyes when spraying or handling, and do not inhale vapors or ingest product. In case of exposure, please refer to the SDS for first-aid measures.

**Spills:** In case of spills, contain and collect spillage with a non-combustible absorbent material, such as: sand, earth, clay-based oil absorbent.

**Technical Assistance:** For additional assistance please contact the Technical Services Department of BaySeal Roofing Products at 972-542-0072.

**Disclaimer:** Technical information as shown in this document is intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product.

LIMITED WARRANTY INFORMATION: The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to commercial customers. Customer assumes full responsibility for quality control, testing, and determination of suitability of products for its intended application or use. We warrant that our products will meet our specifications contained herein. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers' exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages. 2024-07

BaySeal products are available exclusively from Quadrant Performance Materials