



# BAYSEAL<sup>®</sup> OCX

## Characterization

Bayseal open-cell X(OCX) is a spray-applied polyurethane foam (SPF) insulation.

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## Properties / Applications

Bayseal open-cell X (OCX) spray-applied polyurethane foam insulation is produced with a two component, low density, non-structural insulation system designed for commercial, industrial and residential applications.

The system is comprised of an "A" component (aromatic diisocyanate) and a blended "B" component which includes polyols, fire retarding materials and catalysts.

Bayseal OCX system has passed the International Code Council Acceptance Criteria 377 for spray-applied polyurethane foam insulation, Appendix X for use without the use of the prescribed ignition barrier. As with any product, use of Bayseal OCX foam-forming system must be tested (including, but not limited to, field testing) in advance by the user to determine suitability.

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## Storage Conditions

Material should be stored from 50°F to 80°F (10°C to 27°C) in a dry and well-ventilated area. Storage outside this range can affect shelf life and material performance. Do not allow the material to freeze. The material will need to be conditioned to between 90°F and 100°F (27°C and 38°C) 48 hours prior to use. It takes approximately 48 hours in a heated area to condition all the material in a drum to the correct temperature.

Material temperature should be confirmed with a thermometer or an infrared gun. Do not recirculate or mix other suppliers' "B" component into Bayseal OCX system containers.

**CAUTION: If components are below suggested temperatures, the increased viscosity of the components may cause pump cavitation resulting in unacceptable SPF application.**

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### Typical Physical Properties\*

Properties*	Test Method	Value
Air Leakage Rate	ASTM E-283	<0.02L/s-m <sup>2</sup>
Water Vapor Permeance	ASTM E-96	33 perm-in
Density	ASTM D-1622	0.6 lbs/ft <sup>3</sup> (Nominal)
Aged R-value, 6 months <sup>a</sup>	ASTM C-518	3.9 at 1 inch
		13 at 3.5 inch
Viscosity @ 25°C (77°F)		600 - 700 cps
Dimensional Stability:	ASTM D-2126	
158°F @ 97% R.H		<15% Change in volume
Open Cell Content	ASTM D-2856	> 98%
Surface Burning Characteristics** Flame Spread	ASTM E-84	<25
Surface Burning Characteristics** Smoke Index	ASTM E-84	<450
Fungi Resistance	ASTM G-21	Zero Rating

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

\*\* These numerical flame spread values are not a true reflection on how this or any material will perform in actual fire conditions.

<sup>a</sup> The higher the R-value, the greater the insulating power. Ask your seller for the fact sheet on R-values.

### Processing Characteristics

Bayseal OCX must be mixed with a 1.5HP air mixer using a 3 blade shaft for a minimum of 45 minutes before spraying. Heated recirculation can be used to raise the temperature. The material must continue to be mixed during spray operations. Do not overmix (entrain air) and do not contaminate with other material. Caution should be made to limit the pour up of the material.

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## Processing Parameters and Physical Characteristics

Pre-Heater Temperature:	"A" and "B" 120° - 140°F
Hose Temperature:	"A" and "B" 120° - 140°F
Pressures:	1,000 - 1,600 psi (dynamic)*
Mix Ratio Parts:	1 to 1 volume "A" to "B"
Viscosity at 77°F	600 - 700 cps "B" Component
Drum Temperature in Use	90° - 100°F
Shelf Life	6 months @ 50°F to 80°F
Substrate	40° - 120°F
	Materials with high heat absorption properties (such as concrete and metal) may require additional preparation.
<b>Or With Measuring Capabilities at Gun:</b>	
Material temperature at gun	"A" and "B" 100° - 130°F

\* Dependent upon hose length.

## Environmental Consideration and Substrate Temperatures

Applicators must recognize and anticipate climatic conditions prior to application. Ambient air and substrate temperature, moisture, and wind velocity are all critical determinants of foam quality. Variations in ambient air and substrate temperature will influence the chemical reaction of the two components, directly affecting the expansion rate, amount of rise, yield, adhesion and the resultant physical properties of the foam insulation.

All substrates to be sprayed must be free of dirt, soil, grease, oil and moisture prior to application. Moisture in the form of rain, fog or ice, will react chemically and will adversely affect system performance and corresponding physical properties.

If environmental temperature falls outside of the recommended processing parameters, it is the foam applicator's responsibility to ensure the system is being applied appropriately. Proper applications may require adjustments to one or more of the following: spray techniques, substrate, application, or job site temperature.

## Per Lift Application

Applicators should limit Bayseal OCX foam thickness to 6 inches per lift for optimal processing and physical properties. It is the responsibility of the applicator to ensure SPF exotherm will not adversely affect substrates.



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## Additional Technical Reference

Construction Specification Institute Division 7 - Thermal and Moisture Protection  
ICC-ES Evaluation Report ESR-1655  
CCRR - 1049  
Bayseal OCX Spray Polyurethane Foam (SPF) Installation Guidelines

## Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Accella Polyurethane Systems representative.



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