Bayseal™ 2.0

Bayseal™ 2.0 is a non-ozone depleting spray polyurethane foam. Bayseal™ 2.0 is a reaction product of polymeric isocyanate “A-component” and resin “B-component” blown by Enovate® blowing agent and water. Bayseal™ 2.0 is a closed cell rigid foam with nominal 2.0 lb/ft³ density. Utilization of Enovate® as a blowing agent yields superior insulating properties over conventional insulating materials. Bayseal™ 2.0 is designed for construction of the air tight, energy efficient buildings. Typical yield per kit is 4000 – 4500 board feet (individual results will vary).

EQUIPMENT

Bayseal™ 2.0 is designed for use with a 1:1 by volume proportioning unit equipped with heaters to maintain recommended material temperatures. The spray gun should be set up for 12 – 20 pounds per minute throughput. Proper equipment and gun selection is critical to ensure optimal processing characteristics. Contact a BaySystems Technical representative for assistance in selecting proportioning units and guns.

PROCESSING TEMPERATURE AND HUMIDITY

Bayseal™ 2.0 may be applied between ambient temperatures of 35°F and 110°F and relative humidity less than 80%. DO NOT apply Bayseal™ 2.0 if ambient temperature is less than 5°F above dew point. See attached table to for dew point determination.

MACHINE PRESSURE AND TEMPERATURE RECOMMENDATIONS

<table>
<thead>
<tr>
<th></th>
<th>A Preheater</th>
<th>A Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>110 - 130°F</td>
<td>800 - 1400 psi</td>
</tr>
<tr>
<td>B Preheater</td>
<td>110 - 130°F</td>
<td>800 - 1400 psi</td>
</tr>
<tr>
<td>Hose Temperature</td>
<td>110 - 130°F</td>
<td></td>
</tr>
</tbody>
</table>

*field conditions and equipment will dictate optimal temperature and pressure settings.*

APPLICATION

Optimal application thickness is ½ to 2.0 inches. Lifts beyond 3 inches could result in excessive exotherm and possible scorching. Bayseal™ 2.0 is designed for interior use and NOT approved for exterior applications.
MATERIAL STORAGE

Bayscel™ 2.0 components MUST be stored between 50 – 80°F out of direct sunlight. The A Component is moisture sensitive. If material remains in a drum be sure to seal bungs tightly to minimize moisture exposure. BaySystems warrants all material for six months. Guaranteed not to have reactivity drift within this period (material must be stored as recommended).

DISPOSAL OF EMPTY DRUMS

Empty drums should be drip dry, and may be sent to a qualified drum re-conditioner, drum recycling facility, or a landfill permitted to accept used drums. Drums should not be torch cut to avoid generation of irritating and toxic gases and vapors from residual chemicals or cured product present in the drums.

SAFETY PRECAUTIONS

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling Bayscel™ 2.0 components. Before working with these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult a BaySystems representative or contact Bayer’s Product Safety and Regulatory Affairs Department in Pittsburgh, Pa.

Bayscel™ 2.0 must be separated from the interior of a building by an approved 15 minute thermal barrier. The thermal barrier may be omitted when Bayscel™ 2.0 is used in attics or crawlspaces where entry is restricted to service of utilities AND covered by a prescriptive ignition barrier as specified in IRC R315.5.3 – 4 (2006). Always consult your local building official or BaySystems Code representative for approved applications and restrictions.

SYSTEM SPECIFICATIONS

<table>
<thead>
<tr>
<th>Viscosity</th>
<th>cps @ 70°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Component</td>
<td>175 - 250</td>
</tr>
<tr>
<td>B-Component</td>
<td>600 - 800</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mix Ratio</th>
<th>By Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-Component</td>
<td>100</td>
</tr>
<tr>
<td>B-Component</td>
<td>100</td>
</tr>
</tbody>
</table>
Bayseal™ 2.0

TYPICAL PHYSICAL PROPERTIES *

DENSITY
ASTM D – 1622
Nominal 1.8 – 2.0 lbs / ft³

COMPRESSIVE STRENGTH
ASTM D – 1621
35 PSI

TENSILE STRENGTH
ASTM D – 1623
80 PSI

PERCENT CLOSED CELLS
ASTM D – 2856
≥ 90%

INSULATION VALUES
ASTM C – 518
k Factor
BTU-in/ft²·°F·hr
0.151
R Value/Inch
ft²·°F·hr/ BTU-in
6.62

Aged 180 days

Fungi RESISTANCE
ASTM G – 21
ZERO RATING

AIR PERMEATION
ASTM E – 283
ZERO AIR LEAKAGE †
(at 75 Pa)

DIMENSIONAL STABILITY
ASTM D – 2126
% Volume Change
158° F 100% Relative Humidity, 7 days
< 8
200° F, 7 days
< 11
-20°F, 7 days
< 1

SURFACE BURNING CHARACTERISTICS ‡
ASTM E – 84
Class 1
(Nominal 5 inches)
≤ 25 Flame Spread / ≤ 450 Smoke

WATER VAPOR TRANSMISSION
ASTM E – 96
1.11 perm-inches
(Desiccant Method)

SOUND TRANSMISSION CLASS
ASTM E – 90
Class 33

VOC TESTING
CAN/ULC-S774
Pass

SASKATCHEWAN RESEARCH COUNCIL

* Typical data as obtained from laboratory samples and values may vary under actual field conditions.

† Bayseal™ 2.0 qualifies as an air barrier as defined by ICC.

‡ These flame-spread ratings are not intended to reflect hazards presented by this or any other material under actual fire conditions.

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