



**DEMILEC** (USA) LLC.  
POLYURETHANE SYSTEMS MANUFACTURER

# TECHNICAL DATA SHEET

## SEALECTION Agribalance®

### Spray Foam Insulation

#### SEMI-RIGID SPRAY APPLIED POLYURETHANE FOAM

SEALECTION Agribalance® is a two-component, open cell, spray-applied, semi-rigid polyurethane foam system that contains more than 20% renewable agricultural based materials (refined vegetable oils) in the resin. This product is a fully water blown foam system having a low in-place density with excellent adhesion to various substrates including on to itself. SEALECTION Agribalance® incorporates the single-phase solution technology developed by DEMILEC (USA) LLC for extended shelf life and easy processing.

PHYSICAL PROPERTIES		
ASTM	Description	Values
<b>D 1622</b>	Density	<b>0.60 - 0.80 lbs/ft<sup>3</sup></b>
<b>C 518</b>	Thermal Resistance (R-value per inch)	<b>4.45 ft.<sup>2</sup>h.°F/BTU</b>
<b>E 283</b>	Air Permeance @ 75Pa (25 miles/hr. wind) for 3.5", 5.5", 7.5" and 10.5" thick sample	<b>&lt; 0.02 L/s.m<sup>2</sup></b>
	Air Permeance for 3.5in thick sample	
	@ 500Pa	<b>0.003 L/s.m<sup>2</sup></b>
	@ 1000Pa	<b>0.006 L/s.m<sup>2</sup></b>
	@ 1500Pa	<b>0.011 L/s.m<sup>2</sup></b>
	@ 2000Pa	<b>0.018 L/s.m<sup>2</sup></b>
<b>D 1621</b>	Compressive Strength, parallel to rise	<b>1.86 psi</b>
<b>D 1623</b>	Tensile Strength	<b>3.87 psi</b>
<b>D 2126</b>	Dimensional Stability ( 28 days) @ 158°F (70°C), 97% R.H.	<b>% Volume Change</b> <b>3.16</b>
<b>E 96</b>	Water Vapor Permeance, 5"	<b>4.95 Perms</b>
<b>E 84</b>	Surface Burning Characteristics (5-6 ")	<b>Class I</b>
	• Flame Spread Index	<b>15 - 20</b>
	• Smoke Development	<b>400</b>
<b>D 2856</b>	Open Cell Content	<b>98%</b>
<b>D 2842</b>	Water absorption properties,	<b>15.27% Volume</b>
<b>SWRI 05-01</b>	Southwest Research Institute Crawl Space Test on assemblies with foam thickness	<b>Pass</b>
	10" underside Roof deck (no ignition barriers)	
	5½" on vertical surface (no ignition barriers)	

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. The exclusive remedy for all proven claims is replacement of our materials.



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#### LIQUID COMPONENTS PROPERTIES

PROPERTY	ISOCYANATE A 500	RESIN AGRIBALANCE
Color	Brown	Transparent Yellow
Viscosity @ 77°F, cps	180 - 220	250 – 450
Specific gravity	1.22-1.25	1.08-1.12
Shelf life*	1 year	1 year
Mixing ratio (volume)	100	100

\* Drum unopened, consult MSDS for more information.

All Properties were measured on core samples processed with the parameters listed below:

#### PROCESSING PARAMETERS

Type of machine	Graco Fusion Gun AF 5252 with Wall Stud Kit # 249421	
Primary heater (A&B)	125°F	52°C
Hose temperature	125°F	52°C
Components A&B Pressure	1200 psi	8274 kPa
Ambient temperature	77°F	25°C
Thickness, one pass	Full depth of application	Full depth of application
Substrate	Cardboard	

#### REACTIVITY PROFILE

Cream time, s	Gel time, s	Tack free time, s	End of rise, s
1 – 2	3 – 4	6 – 7	6 – 7

#### RECOMMENDED PROCESSING CONDITIONS

	Imperial units	Metric units
Primary Heater	110 – 125°F	43 – 52°C
Hose temperature	110 – 125°F	43 – 52°C
Pressure of mix	1100 – 1500psi	7.6 – 10.3 MPa
Substrate & Ambient temperature	> 23°F	> (-5°C)
Curing temperature	> 23°F	> (-5°C)

#### GENERAL INFORMATION:

It is recommended that the foam be covered with an approved thermal barrier in accordance with the local and national building codes when used in buildings. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°F (-51°C) to 176°F (80°C).