

# Soy Seal® HD and Soy Seal® XD

## Closed Cell Sealant Quick Reference



For additional technical data see Soy Seal® HD and Soy Seal® XD Technical Data Sheet.

Properties	Soy Seal® HD Value	Soy Seal® XD Value	Test Method
<b>Water Vapor Permeability†</b>			
1½" (38 mm)	< 1 perm		ASTM E96
½" (12.7 mm)		< 1 perm	ASTM E96
<b>Air Permeability</b>			
½" (12.7 mm)	0.07 L/s/m² @ 75 pa	0.04 L/s/m² @ 75 pa	ASTM E283
<b>Closed Cell Content (estimated)</b>	> 90%	> 90%	ASTM D2856
<b>Core Density (nominal)</b>	3.0 lbs./ft³	6.0 lbs./ft³	ASTM D1622
<b>Compressive Strength</b>	42 p.s.i. (290 kPa)	40 p.s.i. (275 kPa)	ASTM D1621
<b>Finished Foam Bio-Content</b>	15%	15%	ASTM D6866
<b>Dimensional Stability</b>			
180°F (82°C), Ambient Humidity	< 1%	< 1%	ASTM D2126
73°F (23°C), 50% Relative Humidity	< 1%	< 1%	ASTM D2126
<b>Surface Burning Characteristics*</b>	1½" (38 mm) (nominal)	Not Rated	
Flame Spread Index	< 25	Not Rated	ASTM E84-04
Smoke Developed Index	< 450	Not Rated	ASTM E84-04
<b>Thermal Transmission Properties</b>			
Initial R-Value	R - 5.0 at 1"	R - 1.25 at ¼"	ASTM C518

† ASHRAE defines a Class II vapor retarder as a material having between 0.1 and 1 perms. **Soy Seal® HD**, when installed at 1½" thickness; and **Soy Seal® XD**, when installed at ½" thickness qualify under this definition as a Class II vapor retarder.

\* This numerical flame spread and all other data presented is not intended to reflect the hazards presented by this or any other material under actual fire conditions.

### Read This Before You Buy - What You Should Know About R-Values

The chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy. There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel. To get the marked R-value, it is essential that this insulation be installed properly.

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