



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

## TECHNICAL DATA SHEET

### HEATLOK 217-0

#### Class I Rigid Spray foam System

### SPRAY APPLIED POLYURETHANE FOAM

HEATLOK 217-0 is a two component spray-applied rigid polyurethane foam system specially formulated using zero ozone depletion potential (ODP) blowing agents (245fa and water) to meet the CLASS I requirements in accordance to ASTM E-84. This product is developed for air sealing (Air Barrier) and thermal insulation applications. For identification purposes, a dye is added to the resin to give the final product a green color.

### PHYSICAL PROPERTIES

Method	Description	Value
<b>ASTM D1622</b>	Density (core)	<b>2.2 lb/ft<sup>3</sup> (35 Kg/m<sup>3</sup>)</b>
<b>ASTM C518</b>	Thermal Resistance 2 days @ 73.4°F (23°C) (R-Value per inch) 32°F (0°C) / 77°F (25°C) 50°F (10°C) / 95°F (35°C)	<b>7.14 ft<sup>2</sup>·h.°F/BTU.in</b> <b>(1.26 m<sup>2</sup>·°C/W)</b> <b>6.74 ft<sup>2</sup>·h.°F/BTU.in</b> <b>(1.19 m<sup>2</sup>·°C/W)</b>
<b>ASTM D2856</b>	Closed Cell Content (%)	<b>&gt; 92</b>
<b>ASTM D1621</b>	Compressive Strength (parallel)	<b>22 psi (152 kPa)</b>
<b>ASTM D2126</b>	Dimensional Stability (% Volume Change) 7 days 158°F (70°C), ambient R.H. 158°F (70°C), 97% R.H. -22°F (-30°C), ambient RH	<b>- 0.1</b> <b>+ 3.6</b> <b>- 1.3</b>
<b>ASTM D2842</b>	Water Absorption (% volume)(96 hrs. immersion)	<b>1.0</b>
<b>ASTM E84</b>	Surface Burning Characteristics, 2 inches thick Flame spread index Smoke developed	<b>20</b> <b>450</b>

*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 infringement. 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.*

**HEATLOK 217-0**  
**TYPICAL LIQUID COMPONENTS CHARACTERISTICS**

<b>PROPERTY</b>	<b>ISOCYANATE</b>	<b>RESIN</b>
<b>Color</b>	<b>Brown</b>	<b>Brownish</b>
<b>Viscosity @ 77°F (25°C), cps</b>	<b>150 – 250</b>	<b>150 – 350</b>
<b>Specific gravity</b>	<b>1.20 – 1.24</b>	<b>1.20 – 1.24</b>
<b>Shelf life*</b>	<b>6 months</b>	<b>3 months</b>
<b>Mixing ratio (volume)</b>	<b>100</b>	<b>100</b>

\* See MSDS for more information.

**PROCESSING PARAMETERS**

<b>Type of machine</b>	:	<b>Gusmer H20/35, D gun, # 62 mix chamber</b>
<b>Components A&amp;B Temperature</b>	:	<b>105°F (40°C)</b>
<b>Components A&amp;B Pressure</b>	:	<b>1000 psi (6895 kPa)</b>
<b>Ambient temperature</b>	:	<b>68°F (20°C)</b>
<b>Thickness per pass</b>	:	<b>1¼ inches (35 mm)</b>
<b>Number of passes</b>	:	<b>2</b>
<b>Substrate</b>	:	<b>Plasterboard</b>

**REACTIVITY PROFILE THROUGH THE MACHINE**

<b>Cream time, sec.</b>	<b>Gel time, sec.</b>	<b>Tack free time, sec.</b>	<b>End of rise, sec.</b>
<b>0 – 1</b>	<b>2</b>	<b>5 – 6</b>	<b>5 – 6</b>

**RECOMMENDED PROCESSING CONDITIONS**

<b>Mixing ratio A/B</b>	:	<b>1/1</b>
<b>Mixing temperature</b>	:	<b>105°F (40°C)</b>
<b>Mixing pressure (minimum)</b>	:	<b>800psi (5516 kPa)</b>
<b>Substrate &amp; Ambient temperature</b>	:	<b>&gt;50°F (10°C)</b>
<b>Maximum thickness per pass</b>	:	<b>2 in.</b>

**GENERAL INFORMATIONS**

It is recommended that the foam is covered with an approved thermal barrier in accordance to the local and national building codes when used in buildings and a protective coating when used outside. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°C to 82°C.