



HEATLOK HIGH TEMP

TECHNICAL DATA SHEET

Huntsman Building Solutions (HBS) **Heatlok High Temp** is a two-component spray-applied rigid polyurethane foam system specially formulated for application like tanks and Pipes with high service temperature up to 121°C (250°F).

This product is manufactured with recycled plastic materials, rapidly renewable soy oils, and 4th generation blowing agent with zero ozone depleting potential and < 1 global warming potential. It uses zero ODS (Ozone Depletion Substance) blowing agents and meets all the requirements of the Montreal protocol to protect the ozone layer.

PHYSICAL PROPERTIES			
Density	2.4 – 2.6 lb/ft ³	38 – 42 kg/m ³	ASTM D 1622
Initial Thermal Resistance	R-7.27	1.28 RSI	ASTM C 518
Compressive Strength (10%)	33 psi	228 kPa	ASTM D 1621
Dimensional Stability (7 days) (% Volume change, sample without any substrate) @ -20°C @ 80°C @ 70°C, 100% H.R.		0.3 +0,1 -1,7	ASTM D 2126
Hot-Surface Performance of High Temperature Thermal Insulation		Pass (250°F)	ASTM C 411
Spontaneous-Ignition Temperature Miami-Dade Checklist #0445		> 650°F	ASTM D 1929
Flash Ignition Temperature Miami-Dade Checklist #0445		935°F	ASTM D 1929

LIQUID COMPONENT PROPERTIES*		
PROPERTY	A-PMDI ISOCYANATE	HEATLOK HIGH TEMP RESIN (B218-00)
Color	Brown	Brown or Blue
Viscosity @ 25°C (77°F)	150 – 350 cps	450 – 550 cps
Specific Gravity	1.20 – 1.24	1.20 – 1.23
Shelf life of unopened drum properly stored*	12 months	6 months
Mixing Ratio (volume)	100	100
Storage Temperature	10 - 38°C (50 - 100°F)	15 - 25°C (59 - 77°F)

*See SDS for more information

RECOMMENDED PROCESSION PARAMETERS		
Mixing Ratio A/B (volume)	1/1	
Initial Primary Heaters Set Point	40 - 44°C	104 - 111°F
Initial Primary Hose Heat Set Point	40 - 44°C	104 - 111°F
Initial Processing Setpoint Pressure	5516 – 5860 kPa	800 – 850 psi
Minimal Recommend Processing Pressure	4482 kPa	650 psi
Ambient and Substrate Temperature	15 - 32°C	59 - 90°F
Maximum moisture content of substrate		19 %
Maximum thickness per pass	50 mm	2"
Maximum thickness of successive passes	100 mm	4"
Minimum cooling time period before applying over 100 mm (4'') thick application		4 h

REACTIVITY PROFILE

Cream time	Gel time	Tack free time	End of rise
0 - 1 second	3 – 4 seconds	7 - 8 seconds	5 - 6 seconds

General Requirements: It is recommended that the foam be covered with an approved thermal barrier in accordance with the applicable building code when used in buildings and cover by a UV 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 121°C (-76°F to 250°F). Do not apply excessive thickness in one application it may cause spontaneous combustion of the foam hours after the application. Respect the recommended procedures.

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