TECHNICAL DATA SHEET

DESCRIPTION

THERMAL GREEN is a TYPE 2 spray applied insulation polyurethane foam system, medium density specially formulated without any ozone depletion substances (Zero ODS). This system is formulated based on renewable substances, recycled products and is blown with lavender water. This lavender water generates a pleasant and fresh odour during the application. THERMAL GREEN is apple green in colour.

THERMAL GREEN Green has been tested by an independent laboratory and accredited by the CCMC. It surpasses the CAN/ULC S705.1 requirements including amendments 1, 2 and 3 (*Standard for Thermal Insulation-Spray Applied Rigid Polyurethane Foam, Medium Density, Material Specification* standard).

THERMAL GREEN must be applied by certified installers.

CCMC# 14076-L

THERMAL™ GREEN

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REACTIVITY PROFILE

Cream Time	Gel Time	Rise Time
0-1 second	2-3 seconds	4-5 seconds

COMPONENT PRODUCT SPECIFICATIONS

PROPERTY	POLYMERIC ISOCYANATE A-2732	THERMAL GREEN RESIN
COLOUR	Brown liquid	Dark liquid
Viscosity at 25ºC	150-250 cps	200-400 cps
Specific gravity	1.22 – 1.25	1.17 – 1.21
Shelf life	12 months	6 months

INSTALLATION GUIDELINES

THERMAL GREEN	Ambient Temperature	Equipment Temperature	Minimum Spraying Pressure
SUMMER	10°C to 35°C (50-95°F)	35 to 41°C (95-105°F)	5516 kPa (800 psi)
INTERMEDIATE	0°C to 15°C (32-59°F)	35 to 45°C (95-113°F)	5516 kPa (800 psi)
WINTER	-10°C to 5°C (14-41°F)	38 to 50°C (100-122°F)	5516 kPa (800 psi)

ADDITIONAL INFORMATION

- ✓ Maximum per pass thickness is 51mm (2 inches). Spraying thicker can result in spontaneous combustion and poor overall spray foam quality.
- ✓ Internal temperature of installed pass must be 25°C before installing subsequent passes. Maximum thickness during 24 hour period is 203 mm (8 inches).
- ✓ Like all spray foam products, “THERMAL GREEN” is combustible. An approved thermal barrier must be installed in accordance with applicable building codes.
- ✓ The service temperature of THERMAL GREEN is between -60°C and 80°C.
- ✓ Recommended storage temperature of materials is from 10 to 25°C (50 to 77°F).

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TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	RESULT
Core Density	ASTM D1622	32,58 kg/m^3 (2,03 lb/ft^3)
Compressive Strength	ASTM D1621	190 kPa (27,6 psi)
Tensile Strength	ASTM D1623	283 kpa (41.0 psi)
Water Vapor Permeance	ASTM E96	45 ng(Pa.s.m2)
Surface Burning (Flame Spread Index)	CAN/ULC S102 (S127)	375
Smoke Develop Index	CAN/ULC S102	300
Initial Thermal Resistance (50 mm)	ASTM C518	2.43 k*m^2/W (R 7.01 / inch)
Long Term Thermal Resistance.	CAN/ULC S770	2.03 k*m^2/W Type 2 (The highest) (R 6.1 / inch)
Air Permeance @ 75 Pa	CCMC 07273	0,0006 L/s.m^2
Volatile Organic Emissions Recommended Time to occupancy.	CAN/ULC S774	1 DAY
Open Cell Content	ASTM D2856	0.73 %
Water Absorption (volume)	ASTM D2842	1.74%
Dimensional Stability	ASTM D2126 (28 days) (-20ºC, Ambient R.H.) (80ºC, ambient R.H.) (70^{0}C, 97% (+-3% R.H.)	 -0.60% 3.70% 4.10%

LONG-TERM THERMAL RESISTANCE

Thickness Mm (inches)	R-VALUE (ft^2*hr*°F/BTU)	RSI (m^2*K/W)
50.8 (2.00)	11.8	2.06
63.5 (2.50)	14.9	2.62
76.2 (3.00)	18.1	3.19
88.9 (3.50)	21.5	3.79
102.0 (4.00)	24.6	4.33
127.0 (5.00)	31.1	5.48
152.0 (6.00)	37.1	6.53
177.8 (7.00)	43.4	7.64
203.2 (8.00)	49.9	8.79

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