

# Elite 2.0

## Closed Cell, medium density HFO blown spray foam

ELITE 2.0 is a medium density spray-applied rigid polyurethane foam system insulation formulated without ozone depletion substances (Zero ODS). ELITE 2.0 is made with **HFO** and has a global warming potential (GWP) of 1, which is 99.9% lower than current HFC used in this industry. The product complies with the International Code Council's AC377 standard and obtains high ranked results to ASTM E84 fire testing. It is a high-performance insulation and air barrier, ideal for new construction and retrofit insulation of residential and commercial buildings.

ELITE 2.0 is lime green in colour.

TYPICAL PHYSICAL PROPERTIES		
PHYSICAL PROPERTIES	STANDARD	RESULT
<b>Aged R-Value (90 days/140°F)</b>	ASTM C 518	6.8 @ 1" 23.2 @ 3.5"
<b>Core Density</b>	ASTM D1622	2.00 lb/ft <sup>3</sup>
<b>Compressive Strength</b>	ASTM D 1621	26 psi
<b>Tensile Strength</b>	ASTM D1623	29 psi
<b>Water Vapour Transmission (permeance @ 1.5")</b>	ASTM E96	0.70 perm
<b>Water Absorption</b>	ASTM D2842	< 2%
<b>Fungi Resistance</b>	ASTM C1338	No growth
<b>Closed Cell Content</b>	ASTM D 2856	>98%
<b>Dimensional Stability (14 days 70°C, 97±3% RH)</b>	ASTM D2126	3 %
<b>Air Leakage (75 Pa @ 1")</b>	ASTM E283M	< 0.02 L/sm <sup>2</sup>

FIRE PERFORMANCE CHARACTERISTICS		
<b>ASTM E 84</b>	Surface Burning Characteristics, 4" Thick Flame Spread Index Smoke Developed	Class1 10 280
<b>AC 377 Appendix X</b>	Without an intumescent coating	Meets Criteria
<b>NFPA 286</b>	With 15 mils (dry) DC-315	Meets Criteria



**PREMIUM PRODUCT**

Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. The result is a durable product with industry leading thermal resistance



**SUSTAINABILITY**

Elite 2.0 is non-toxic HFO based and formulated with recycled products, captured rainwater and plant-based materials. Environmentally responsible behaviour is a Genyk standard.



**CERTIFIED QUALITY**



Genyk maintains thorough in-house quality control. In addition, Elite 2.0 is tested and certified by **ICC-ES #ESR-5150**, including fire protection certifications Appendix X and NFPA 286

**INSTALLATION GUIDELINES**

ELITE 2.0	Ambient Temperatures	Spray Temperatures	Recommended Spray Pressure
<b>Summer</b>	45°F to 95°F	100°F - 120°F	900 - 1200 psi
<b>Regular</b>	30°F to 70°F	100°F - 120°F	900 - 1200 psi
<b>Winter</b>	15°F to 60°F	105°F - 130°F	900 - 1200 psi

Processing conditions can vary depending on temperature, humidity, substrate, equipment, and other factors. It is the applicator's responsibility to process and apply Elite 2.0 within specification.

**More details**

- Maximum single pass thickness: 3” (to avoid fire hazards resulting from excessive heat generation)
- If more than 3” is required, use multiple passes of 2”. Second layer can be applied after first is hard to the touch.
- If subsequent passes are needed, wait until internal temperature of installed pass be less than 100°F before installing subsequent passes. Maximum thickness during 24-hour period is 8 inches.

**COMPONENT PRODUCT SPECIFICATIONS**

PROPERTIES	A - PMDI ISOCYANATE	ELITE 2.0 RESIN
<b>Colour</b>	Brown Liquid	Green Liquid
<b>Viscosity at 25°C</b>	150 – 250 cps	300 – 600 cps
<b>Specific Gravity at 25°C</b>	1.22 – 1.25	1.17 – 1.22
<b>Shelf Life</b>	12 months	6 months
<b>Storage Temperature</b>	50°F - 100°F	50°F - 77°F
<b>Ratio (volume)</b>	100	100



During the application, it is important not to exceed 3 inches per pass, in order not to alter the quality of the foam.



Before handling these chemicals, please consult the Safety Data Sheet for the two components, that are available from Genyk.

**ADDITIONAL INFORMATION**

- The service temperature of Elite 2.0 is between -76°F and 176°F.
- Recommended storage temperature of materials is from 50°F to 77°F.
- See ICC-ES Evaluation Report No. **ESR-5150** at [www.icc-es.org](http://www.icc-es.org)

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