



ESR-5150

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.

The ELITE 2.0 is offered in a choice between a neutral color or the renowned Genyk lime green color.

TYPICAL PHYSICAL PROPERTIES

| PHYSICAL PROPERTIES | STANDARD | RESULT |
|---|-------------|--------------------------|
| Aged R-Value | ASTM C 518 | 7.0 @ 1" 25 @ 3.5" |
| Core Density | ASTM D1622 | 2.00 lb/ft ³ |
| Compressive Strength | ASTM D 1621 | 26 psi |
| Tensile Strength | ASTM D1623 | 29 psi |
| Water Vapour Transmission (permeance @ 1.5") | ASTM E96 | 0.70 perm |
| Water Absorption | ASTM D2842 | < 2% |
| Fungi Resistance | ASTM C1338 | No growth |
| Closed Cell Content | ASTM D 2856 | >98% |
| Dimensional Stability (14 days 70°C, 97±3% RH) | ASTM D2126 | 3 % |
| Air Leakage (75 Pa @ 1") | ASTM E283M | < 0.02 L/sm ² |
| Re-Entry Time | ASTM D8445 | 1 hr (10 ACH) |
| Re-Occupancy Time | ASTM D8445 | 1 hr (10 ACH) |

FIRE PERFORMANCE CHARACTERISTICS

| | | |
|--------------------------|--|---------------------|
| ASTM E 84 | Surface Burning Characteristics, 4" Thick Flame Spread Index Smoke Developed | Class1 10 280 |
| AC 377 Appendix X | Without an intumescent coating | Meets Criteria |
| NFPA 286 | With 15 mils (dry) DC-315 14 mils (WFT) No Burn Plus thB | Meets Criteria |

THERMAL RESISTANCE (R-VALUES)

| THICKNESS (inches) | R-VALUE (°F.ft ² .h/Btu) |
|--------------------|-------------------------------------|
| 1 | 7 |
| 2 | 14 |
| 3.5 | 25 |
| 4 | 29 |
| 5 | 36 |
| 6 | 43 |
| 7 | 50 |
| 8 | 57 |
| 9 | 65 |
| 10 | 72 |

Calculated R-values are based on tested K-values at 1- and 3.5-inch. R-values greater than 10 are rounded to the nearest whole number.

APPLICATION GUIDELINES

- Maximum single pass thickness: 3" (to avoid fire hazards resulting from excessive heat generation)
- If more than 3 inches is required, use multiple passes of 2 inches. 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.

APPLICATION PARAMETERS

| ELITE 2.0 | Ambient Temperatures | Spray Temperatures | Recommended Spray Pressure |
|-----------|----------------------|--------------------|----------------------------|
| Summer | 45°F to 95°F | 100°F - 120°F | 900 - 1200 psi |
| Regular | 30°F to 70°F | | |
| Winter | 15°F to 60°F | | |

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.



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.

COMPONENT PRODUCT SPECIFICATIONS

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

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