

Elite 50

Open Cell, Low Density Spray Polyurethane Foam

ELITE 50 is a low-density spray-applied semi-rigid polyurethane foam system insulation, uniquely distinguished by the utilization of on-site recaptured rainwater as blowing agent. The product complies with the International Code Council's AC377 standard, including class I rating per ASTM E84 fire testing. Boasting features such as easy sprayability, and consistent yield, ELITE 50 excels in providing efficient and eco-conscious thermal insulation and sound attenuation. The product is ideal for new construction and retrofit insulation of residential and commercial buildings.

TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	RESULT
Aged R-Value	ASTM C 518	3.7 @ 1" 13 @ 3.5"
Core Density	ASTM D 1622	0.50 lb/ft ³
Tensile Strength	ASTM D 1623	> 3 psi
Water Vapour Transmission (permeance @ 3")	ASTM E 96	12.9 perm
Open Cell Content	ASTM D 6226	> 95%
Dimensional Stability (14 days 70°C, 97±3% RH)	ASTM D 2126	- 3 %
Air Leakage (75 Pa @ 1")	ASTM E 2178	< 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

Surface Burning max 4"	ASTM E 84	Class1
Flame Spread Index		< 25
Smoke Developed		< 450
Fire Test Standard	AC 377 Appendix X	Meets Criteria With 5 mils wet DC-315
	NFPA 286	Under evaluation With 18 mils wet DC-315



PREMIUM PRODUCT

Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. Consistency is key, ensuring optimal results in every application.



ECO-CONSCIOUS

Elite 50 foam is formulated with recycled captured rainwater and plant-based materials, embodying Genyk's commitment to environmentally responsible practices as a standard.



CERTIFIED QUALITY

Genyk enforces thorough in-house quality controls. In addition, Elite 50 is tested and certified by **ICC-ES #ESR-5370**, and the AC 377 Appendix X fire testing.

INSTALLATION GUIDELINES

	Ambient Temperatures	Spray Temperatures	Recommended Spray Pressure
ELITE 50	32°F to 95°F	115°F – 135°F	1000 - 1400 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 50 within specification. Recommended thickness per pass is from 3 to 12 inches. The service temperature range is from -58°F to 176°F.

COMPONENT PRODUCT SPECIFICATIONS

PROPERTIES	A - PMDI ISOCYANATE	ELITE 50 RESIN
Colour	Brown Liquid	Amber liquid
Viscosity at 25°C	150 – 250 cps	150 – 450 cps
Specific Gravity at 25°C	1.22 – 1.25	1.08 – 1.15
Shelf Life	12 months	6 months
Storage Temperature	50°F – 100°F	50°F – 100°F
Ratio (volume)	100	100



Elite 50 works as both a thermal insulator and acoustical material. The product significantly reduces the transmission of ambient sound and vibration-related noise.



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

The information contained herein is based on information available to Genyk Inc. The data is considered an accurate description of the product performance and is presented in good faith. However, Genyk Inc. disclaims any liability for incidental or consequential damages which may result from the inappropriate use of this product. It is the user's responsibility to thoroughly test the product in any application to determine performance, efficiency and safety. No information contained herein is to be considered as permission or recommendation to infringe on any patent or other intellectual property.