

Product Description

XLS 500® is a two component, light density open-cell spray polyurethane foam insulation system. It uses water as the sole blowing agent and is installed by certified professionals using specialized equipment that uses a fixed ratio foam system.

XLS 500 is a unique Insulation in the industry as it employs a proprietary formula that ensures adhesion to substrates and itself. With superior yield, sprayability and GREENGUARD certification, this low VOC and low odor product is preferred by sprayers. It is the ideal insulation for commercial, residential, and industrial applications.

Burn Characteristics

Surface Burning Characteristics @ 4" Thick	ASTM E84	Class 1
Flame Spread		20
Smoke Development		215
Thermal Barrier	NFPA 286	15 min – 20 mils WFT DC 315
Ignition Barrier 4 mils WFT DC 315	AC377 Appendix X	Walls – 8" Ceiling – 12"
Unvented Attic Without Ignition Barrier	UVA	Walls – 18" Roof – 18"

Thermal Resistance

Thickness	R-Value (°F.ft ² .h/Btu)
1.0	3.9
2.0	7.3
3.0	11
3.5	13
4.0	15
5.0	18

Water Vapor Permeance and Absorption

XLS 500 has excellent water vapor permeance for quicker drying and superior moisture management.

Technical Properties

Attribute	Test	Results
Color		Cream
Dimensional Stability* (Volume Change after 7 days)	ASTM D2126	-0.1% at 158°F & 97% RH
Water Vapor Permeance	ASTM E96 2"	27.6 perms
Density	ASTM D1622	0.5 lb/ft ³
Open Cell Content	ASTM D6226	100%
Tensile Strength	ASTM 1623	3.3 psi
Water Absorption	ASTM D2842	6.7%
Air Permeance at 3"	ASTM E2178	0.0028 cfm/ft ²
Re-Entry Worker	ASTM D8445	1 Hour
Re-Entry Occupancy	ASTM D8445	1 Hour
CCRR Listing		CCRR-0397

* Dimensional Stability was tested without a substrate

Application Information

- Product must be applied when surface and ambient temperatures are within manufacturer's prescribed limits. Acceptable substrate temperatures are 0°F to 120°F.
- XCELUS XLS 500 may only be installed by XCELUS Licensed Dealers.
- Equipment must be able to deliver the proper ratio (1:1 by volume) at the recommended temperatures and pressures.
- Adheres to most building material substrates.
- Detailed application information can be found in the XCELUS Building Systems Installation Manual.

Health and Safety Handling

Properly fitting breathing apparatus supplying fresh air must be worn by the installers and all other trades or helpers within 33 feet working distance of the installer. Protective gloves, coveralls, and eye protection must also be worn while spraying.

Mechanical ventilation with a minimum of 0.3 air changes per hour is also required during and after spray installation.

Regulatory

- CCRR-0397 has been issued by Intertek.
- For regulatory issues concerning XLS 500 contact XCELUS at 1-800-205-6131.

Environmental and Health

XLS 500 is formulated using 100% water as a blowing agent making this a low GWP product with zero ozone depletion potential. This low VOC product is GREENGUARD certified. Products that have achieved GREENGUARD Certification are scientifically proven to meet some of the world's most rigorous third-party chemical emissions standards, helping to reduce indoor air pollution and the risk of chemical exposure.

By selecting XLS 500, you are contributing to the reduction of greenhouse gas emissions.

XCELUS® spray foam insulation products only use blowing agents that respect the environment.

XLS 500 is PBDE-free.



Related References

All physical properties were determined through testing by accredited third party agencies. XCELUS® Building Systems Inc. reserves the right to change specifications in its effort of continuous improvement.

Company Information

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