Creating warm and efficient buildings for happy and productive animals.

ENERGY-EFFICIENT.

STRONG.

HEALTHY.

RESPONSIBLE

QUIET.

A HEALTHIER AGRICULTURAL S Y S T E M

GacoToughFoam HIGH DENSITY 10 LB SPRAY FOAM

CONTRACTOR / APPLICATOR BENEFITS

HIGH DENSITY SPRAY FOAM. Use in a variety of applications including poultry houses, livestock enclosures and uninhabited storage buildings.

EXPANDED SCOPE OF WORK. Increase sales by adding agricultural and metal building applications to your services.

VERSATILE. Ideal for use on all types of substrates, either alone or as a system with other Gaco closed cell foams. Your options are unlimited.

OPTIONAL COLORS. Available in black and no color.

OWNER BENEFITS

ENERGY EFFICIENT. Seamless air barrier reduces uncontrolled air leakage and lowers energy costs.

HEALTHY. Reduces condensation, moisture and mold to help prevent disease; improves living environment and helps increase livestock and poultry productivity.

STRONGER. Resists damage from livestock and poultry and offers durability for the everyday industrial and agricultural environment.

RESISTANT. Battles darkling beetle and other insect infiltration.



GacoToughFoam HIGH DENSITY 10 LB SPRAY FOAM



With GacoToughFoam Agricultural System, air leakage is virtually eliminated.

Due to the size of building side walls, small cracks throughout your agricultural building can add up to big amounts of total energy loss. GacoToughFoam Agricultural System seals these cracks to enable the temperature to be managed at consistent levels and limit the ability of airborne disease to spread.

increase.

GacoToughFoam Agricultural System creates a healthier environment for your animals.

In addition to limiting airborne disease spread, GacoToughFoam Agricultural System reduces condensation, moisture and mold, helping to prevent sickness while improving the living environment.

GacoToughFoam HIGH DENSITY 10 LB SPRAY FOAM





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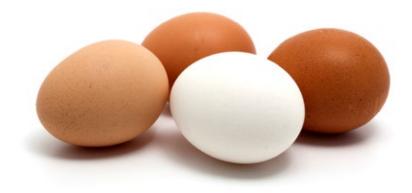
Gaco 183M

GacoToughFoam Agricultural System stands up to natural predators.

Darkling beetles are common enemies of insulation as they burrow to create holes and weaken the material. GacoToughFoam Agricultural System is designed to battle darkling beetle and other insect infiltration. In addition, the rigidity of the insulation not only strengthens the building structure, but also helps resist damage from animals inside the agricultural building.

GacoToughFoam Agricultural System creates a relaxing environment.

GacoToughFoam is available in both black and no color options and is sprayed over gray-colored Gaco 183M – these darker colors provide a comfortable and calming effect for your animals.



Two spray foam products unite to create a durable Agricultural System.

GacoToughFoam Agricultural System consists of Gaco 183M 2 lb. spray foam — Meets NFPA 286 and ASTM E84 requirements, see Intertek Research Report IRR-1002 – covered by the environmentally safe, spray applied GacoToughFoam 10 lb. spray foam to protect the overall system.

	The following are the relevant physical properties of products used in the GacoToughFoam system. Please see the product data sheets for additional information.			
PROPERTY*	ASTM TEST	VALUE		
Gaco 183M				
Core Density	D1622	2.0 ± 10% lbs/ft ³		
Aged R-Value**	C518	R 6.4 at 1" *** h ft² °F/Btu R 23.3 at 3.5" h ft² °F/Btu (R6.67 per inch) ***		
Compressive Strength (Parallel to Rise)	D1621	32 psi		
Tensile Strength	D1623	64 psi		
Water Absorption (96 hours, 2" head, 70-74°F (21-23	3°C)) D2842	0.71% by volume		
Water Vapor Permeance	E96 - Method A	1.12 perm-in		
Dimensional Stability (7 Days)	D2126	L=6%, W=5%, T=3% linear change		
Air Permeance @ 75 Pa (Infiltration/Exfiltration)	E2178	0.0013 L/s m ²		
Fungi Resistance	C1338	Pass (no growth)		
GacoToughFoam F10000				
Core Density	D1622	10 ± 10% lbs/ft ³		
Aged R-Value**	C518	R 4.8 at 1" *** h-ft².ºF/Btu		
*These items are provided for general information. **Federal Trade Commission regulations published in the Federal Register 16 CFR Part 460 require that R value testing of polyurethane foam insulation must be conducted on aged samples at a 75°F				

mean test temperature. Failure to comply can result in substantial fines by the FTC

^{***}To determine R values for thickness not listed: Between 1 inch and 3.5 inch can be determined through linear interpolation; greater than 3.5 inches can be calculated based on R 6.67/inch

SURFACE BURNING CHARACTERISTICS	Meets Class A (Class 1) requirements when tested in accordance with ASTM E84 (UL 723) as defined in NFPA 101 and Section 803 of the International Building Code (2009, 2012, 2015).		
SYSTEM	THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
Gaco 183M	4" (10.2 cm)	10	400
GacoToughFoam F10000		20	105

LARGE SCALE FIRE TESTING				
TEST	PERFORMANCE	LOCATION	FOAM THICKNESS / COATING	
AC377, Appendix X	Ignition Barrier	Attic and crawlspace walls Attic and crawlspace ceiling	Up to 7.5" (19.05 cm) / no coating required Up to 9.5" (24.13 cm) / no coating required	
NFPA 286	Thermal Barrier	Vertical surfaces Horizontal or sloped surfaces	Up to 5.5" (13.97 cm) / DC315 - 20 mil wet Up to 7.5" (19.05 cm) / DC315 - 20 mil wet	
NFPA 286	Thermal Barrier	Vertical surfaces Horizontal or sloped surfaces	Up to 5.5" (13.97 cm) / DC315 - 6 mil wet primer & 22 mil wet Up to 9.5" (24.13 cm) / DC315 - 6 mil wet primer & 22 mil wet	
Garo 183M meets or exceeds the IRC requirements for exterior walls in tune I III III IV and V construction. This includes NEDA 285 and NEDA 250 testing with				

Intertek Listings (GWL/FIP 30-02, GWL/FIP 30-01) and one-hour fire resistance rating per ANSI/UL 263 (UL Design W426) which is equivalent to ASTM E119.



Contact us today for more information about the GacoToughFoam Agricultural System.

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