NCFI 11-035 AgriThane™

DESCRIPTION: AgriThane™ 11-035 is a two component, closed-cell SPF insulation system formulated with a low GWP HFO blowing agent and is designed for the agricultural industry. AgriThane™ 11-035 helps eliminate air infiltration, allowing for a more consistent and controlled environment for poultry and livestock. It can also be used for insulating liquid storage tanks, freezers, and cold storage facilities for storing perishable items, such as potatoes, onions, tomatoes, and nuts, among other applications. AgriThane™ 11-035 is a FEMA Class 5 flood resistant material, a water resistive barrier (AC71) at 1", and an air impermeable insulation at ½".

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Value
R-Value *Aged R-Value Per ICC 1100 Standard	ASTM C518	7.6 @ 1" 25 @ 3.5"
Core Density	ASTM D1622	2.0 lb./ft^3
Moisture Vapor Transmission	ASTM E96	0.74 perms @ 1"
Air Permeance @ 75 Pa	ASTM E2178	< 0.02 (L/s-m^2) @ $^1/_2$"
Closed Cell Content	ASTM D6226	>90%
Dimensional Stability 28 days at 158°F, 97%RH	ASTM D2126	<15%
Compressive Strength	ASTM D1621	28 psi
Tensile Strength	ASTM D1623	45 psi
Fungi Resistance	ASTM C1338	Pass, No Growth

Fire Test Data	
ASTM E84 Flame Spread	Class I ≤ 25
ASTM E84 Smoke Development	Class I ≤ 450
UL 94-HBF	Pass

Polyurethane products manufactured or produced from this liquid system may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend on a broad range of factors, which are controlled and influenced by the manufacturing and production process, by the mode of application or installation and by the function and usage of the particular product. Any flammability rating contained in this literature is not intended to reflect hazards presented by this or any other material under actual fire conditions. These ratings are used solely to measure and describe the product's response to heat and flame under controlled laboratory conditions. Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage and utilize all appropriate precautionary and safety measures.

R-Values*		
Thickness (inches)	R-Value (°F·hr·ft² / Btu)	Moisture Vapor Perm
1	7.6	0.74
2	15	0.37
3	23	0.25
3.5	25	0.21
4.25	30	0.17
4.5	32	0.16
5	36	0.15
5.5	39	0.13
6.9	49	0.11
8.4	60	0.09

*Note: As with all insulating materials, the R-value will vary with age and use conditions. The numbers represented in this table are aged R-values per ICC 1100 Standard.

Vapor Retarder

When installed at a minimum thickness of 1" AgriThane™ is considered a class II moisture vapor retarder. Consult local building code officials for specific requirements. Climate zone tables are available in current IBC and IRC publications.

Exterior Applications-Weather Protection

Spray polyurethane foam should be protected from the adverse effects of direct sunlight causing dusting and discoloration. On exterior tank applications where the foam will be exposed to UV light, a protective coating should be applied within 48 hours.

Storage Recommendation

Shelf life listed below is from the date of manufacture when stored indoors, in the original unopened containers and between the temperatures of 50° – 80°F.

B-11-035 Resin- 6 months

A2-000 Isocyanate- 24 months

Application Guideline

Read all instructions before applying this product. Consult NCFI's application guideline for AgriThane™ (Grade: Summer, Regular or Winter) prior to installation. The system should be processed through spray equipment capable of delivering the proper 1:1 ratio by volume. Material should be pre-conditioned to 65-85°F and pre-heater temperatures set between 110- 135°F. A minimum 1000 psi dynamic pressure is recommended. Maximum service temperature of <180°F.

Scan to access the SDS and Application Guideline:

Technical Assistance

For additional assistance please contact NCFI's Technical Services department at:

O: 336-783-3491

Email: techservice@ncfi.com

The information on NCFI's data sheets is to assist customers in determining whether our products are suitable for their applications. The customers must satisfy themselves as to the suitability for specific cases. NCFI warrants only that the material shall meet its specifications. This warranty is in lieu of all other written or unwritten, expressed or implied warranties, and NCFI expressly disclaims any warranty of merchantability, fitness for a particular purpose, or freedom from patent infringement. Accordingly, buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the purchase price of the material. Failure to adhere to any recommended procedures shall relieve NCFI of all liability with respect to the material or the use thereof.