AGRITITE™ 10
NON-FIRE RATED AGRICULTURAL INSULATION

DESCRIPTION:
AGRITITE 10 is a high density spray polyurethane foam system that is non-rated for use in interior insulation of livestock housing and other agricultural applications.

AGRITITE products are available in natural or black if required for blackout conditions.

AGRITITE 10 is NOT designed for interior applications requiring ASTM E-84 fire classified foam systems.

The benefits of AGRITITE 10 include:
- Control moisture infiltration
- Controls air infiltration
- Ease of application
- Non-fibrous
- Structural properties

TYPICAL PROPERTIES\(^{(3)}\)

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
<th>TEST METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid Resin – As Supplied</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity @ 72°F</td>
<td>1.030 – 1.080</td>
<td>ASTM D 1638</td>
</tr>
<tr>
<td>Viscosity @ 72°F (cps)</td>
<td>700 - 1000</td>
<td>Brookfield</td>
</tr>
<tr>
<td>Iso:Resin Mix Ratio (vol:vol)</td>
<td>1:1</td>
<td></td>
</tr>
<tr>
<td>Density, core (pcf @ 1” lifts)</td>
<td>10 - 14</td>
<td>ASTM D 1622</td>
</tr>
<tr>
<td>Compressive Strength (psi)</td>
<td>120 - 350</td>
<td>ASTM D 1621</td>
</tr>
</tbody>
</table>

\(^{(3)}\) These physical property values are typical for this material as applied at our development facility under controlled conditions. SPF performance and actual physical properties will vary with differences in application (i.e. ambient conditions, process equipment and settings, material throughput, etc). As a result, these published properties should be used as guidelines solely for the purpose of evaluation. Physical property specifications should be determined from actual production material.

The above data was collected from samples prepared using the following equipment configuration:
- Graco® H-20/35 proportioner set at 1:1 volume ratio with 50 ft of heated delivery hose
- Graco® FUSION spray-gun configured with a AR4242 mix module
- Process temperature settings: Isocyanate 130°F; Resin 130°F; Hose 130°F
- Process pressure: 1000 psig minimum while spraying

AGRITITE 10 has shown acceptable on-site performance with temperature settings in the range of 110°F - 130°F for Isocyanate, Resin and Hose. Every job site and set of ambient /substrate conditions are different; therefore, one set of process settings may not work for every situation. It is the responsibility of the applicator to evaluate the on-site conditions and then determine the appropriate SPF reactivity and process settings.
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GENERAL INFORMATION:
AGRITITE 10 is a spray polyurethane foam (SPF) system intended for installation by qualified contractors trained in the processing and application of SPF systems, as well as the plural-component polyurethane dispensing equipment required to do so. Contractors and applicators must comply with all applicable and appropriate storage, handling, processing and safety guidelines. BASF technical service personnel should be consulted in all cases where application conditions are questionable.

CAUTIONS AND RECOMMENDATIONS:
AGRITITE 10 is designed for an application rate of ½ inch maximum thickness per pass. Additional passes require a minimum of 20 minutes between passes. This application procedure is in compliance with the Spray Polyurethane Foam Alliance (SPFA).

AGRITITE 10 is a NON-RATED SPF and is NOT designed for use as an EXTERIOR roofing system or for INTERIOR wall system that requires ASTM fire classification. BASF offers a separate line of products for these applications. For more information please contact your sales representative.

Cold storage structures such as coolers and freezers demand special design considerations with regard to thermal insulation and moisture-vapor drive. AGRITITE 10 should NOT be installed in these types of constructions unless the structure was designed by a design professional for specific use as cold storage.

Foam plastic materials installed in walls or ceilings may present a fire hazard unless protected by an approved, fire-resistant thermal barrier with a finish rating of not less than 15 minutes as required by building codes. Rim joists/header areas, in accordance with the IRC and IBC, may not require additional protection. Foam plastic must also be protected against ignition by code prescribed or properly tested materials in attics and crawl spaces. See relevant Building Codes and www.iccsafe.org for more information.

The AGRITITE 10 foam systems are NOT recommended for medical uses; such as, splints or casts for broken bones nor other medical or pharmaceutical uses.

In addition to reading and understanding the MSDS, all contractors and applicators must use appropriate respiratory, skin and eye Personal Protective Equipment (PPE) when handling and processing polyurethane chemical systems. Personnel should review the following documents published by Spray Polyurethane Foam Alliance (SPFA):

AX-171 Course 101-R Chapter 1: Health, Safety and Environmental Aspects of Spray Polyurethane Foam and Coverings

and the following document is available from the Center for the Polyurethanes Industries (CPI):
Model Respiratory Protection Program for Compliance with the Occupational Safety and Health Administration’s Respiratory Protection Program Standard 29 C.F.R. §1910.134

As with all SPF systems improper application techniques should be avoided. Examples of improper application techniques include, but are not limited to excessive thickness of SPF, off-ratio material and spraying into or under rising SPF. Potential results of improperly installed SPF include: dangerously high reaction temperatures that may result in fire and offensive odors that may or may not dissipate. Improperly installed SPF must be removed and replaced with properly installed materials.

LARGE MASSES of SPF should be removed to an outside safe area, cut into smaller pieces and allowed to cool before discarding into any trash receptacle.

SPF insulation is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to AGRITITE 10 or any polyurethane foam.

SHELF LIFE AND STORAGE CONDITIONS:
AGRITITE 10 Series has a shelf life of approximately (3) three months from the date of manufacture when stored in original, unopened containers at 50-80°F. As with all industrial chemicals this material should be stored in a covered, secure location and never in direct sunlight. Storage temperatures above the recommended range will shorten shelf life. Storage temperatures above the recommended range may also result in elevated headspace pressure within packages.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY:
The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. Customer assumes full responsibility for quality control, testing and determination of suitability of products for its intended application or use. We warrant that our products will meet our written liquid component specifications. We make no other warranty of any kind, either express or implied, by fact or law, including any warranty of merchantability or fitness for a particular purpose. Our total liability and customers’ exclusive remedy for all proven claims is replacement of nonconforming product and in no event shall we be liable for any other damages.

Warning: These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

Revision Date: June 14, 2013