

DESCRIPTION

INSULATION PRO Arctic 3.0™ provides a semi-rigid membrane with exceptional resistance to mildew, water absorption and corrosion.

ATI's industrial-grade spray foam insulation is a two component, modified polyurethane product. The insulation is installed by ATI certified technicians using our patented specialized equipment and application processes. The product is applied at high temperatures and pressures to obtain optimum characteristics.

INSULATION PRO Arctic 3.0™ provides a state-of-the-art, highly versatile, long lasting solution for enhanced structural integrity and thermal as well as acoustic protection.

FEATURES AND BENEFITS

- 20 Year Limited Warranty **
- Highest insulation values of ANY conventional insulation product commercially available.
- No CFC/HCFC or Formaldehyde
- NFPA and UBC Class I Fire Rating Compliant
- Meets the requirements of ASTM E84-97a
- Meets the requirements of ASTM C-411 and UL 181
- Sound Reduction (Up to 200%)
- Resists Water, Mildew, Bacteria, Fungus, Chipping and Flaking
- Spray applied with unlimited thickness in a single application
- Rapid set allows for vertical applications
- Non-corrosive to steel, copper, aluminum and other metals
- Mimics the surface that it is being applied to
- Extended tack time allows deep surface penetration thus providing superior adhesion
- High temperature stability up to 300° F (148 °C) with intermittent temperatures up to 380° F (193 °C)
- Zero Static Conductivity
- Adds Structural Integrity

** When used with ATI Sealant or Coating Solutions

COLORS

The standard colors are green, light green and light yellow.

RECOMMENDED APPLICATIONS

- Insulates **any** substrate for thermal dynamic control.
- The insulation is sprayed-applied as a liquid and expands 120 times its liquid volume to fill in voids, cavities and wrap around various infrastructure components and fixtures while sealing cracks and crevices that are impossible to insulate with conventional methods.

TECHNICAL SPECIFICATIONS

DRY PROPERTIES* @ 1 inch @ 72°F (22°C)

Density	3.0 lbs/ft ³
R-Factor	9.3
K-Factor	0.107
Compressive Strength	65 lb/in ² +/- 5%
Parallel to Rise	85 lb/in ² +/- 10%
Perpendicular to Rise	75 PSI (0.51 mpa) +/- 10%
Shear Strength	95 PSI (0.65 mpa) +/- 10%
Tensile Strength	85 PSI (0.56 mpa) +/- 10%
Parallel to Rise	70 lb/in ² (22.3 mpa) +/- 5%
Adhesion	Equal to Tensile
Close Cell Content	>94%
Water Absorption (96 hrs under 2" head)	0.0096 lbs/sq ft (3lb)
Water Vapor Transmission	1.1 perm-in mm
Dimension Stability (28 days)	< 3 %
Recommended Service Temperature Range	-60°F to +300°F
Flame Spread @ 1 inch	Class I
Smoke Density @ 1 inch	Class I
Acoustical Properties	37 STC 70 NRC
Noise Reduction Coefficient	.02
Sound Transmission Class	43

*All dry film properties are approximate since processing parameters, as well as added mixture types (i.e. colors) and quantities will change physical properties of cured elastomer. All samples for above tests were force cured or aged for more than three weeks.

CURING SCHEDULE

Gel	3 Seconds (± 2 seconds)
Tack Free	18 Seconds (± 3 seconds)
Post Cure**	10 Minutes
Recoat	3 Seconds (± 2 seconds)

**Complete polymerization to achieve final strength can take up to several days, depending on a variety of conditions.

INSULATION PRO Arctic 3.0™ is a spray-applied insulation. It is delivered by ATI's patented specialized equipment capable of producing pressures in excess of 6,000 PSI at 300° (F).

