BAZZ Foam

TECHNICAL GUIDE

BAZZ AIR NM

OPEN-CELL POLYURETHANE FOAM

Product Description:

Bazz Air NM is a two-component, no-mix open-cell spray polyurethane **(ocSPF) light-density** insulation system. It uses water as a blowing agent and is applied by professionals using specialized equipment with a fixed ratio.

Bazz Air NM features an advanced formula that ensures strong adhesion to surfaces and itself, creating a continuous and reliable air seal. It is ideal for residential, commercial, and industrial applications.

Appearance:

The final cured product is cream in color (natural).

Thermal Resistance:

Thickness (inch)	R-Value (°F·ft2·h/Btu)
1.0	4.1
2.0	7.3
3.0	11
3.5	13
4.0	15
5.0	18
16	59

i --- Thermal resistance calculated using **R = 3.67/inch (excluding 1" value)**

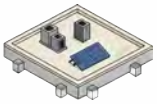
Recommended Applications:

Residential Interior Construction:

Wall enclosures, ceilings, interior foundation, attic, crawl space, cathedral ceiling, duct work, rim joists, etc.

Industrial Construction:

Wall enclosures including steel, above or below grade, foundation walls, underside of deck, etc.



Commercial Interior Construction:

Walls, foundation walls and underside of roof decks.

Application Information:

Applied at a maximum of 12" per pass.

Foam must be protected from UV exposure within 90 days of application. Apply ocSPF insulation only when surfaces and ambient temperatures are within manufacturers' prescribed limits. Ambient humidity should be below 80% and substrate temperatures must be more than 5°F above dew point to avoid condensation risks.

Substrate temperature for Standard Grade: 14-120°F.

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Technical Properties

Attribute	Standard	Test Results
Density	ASTM D1622	0.5 lb/ft³
Water Vapor Transmission	ASTM E96	9.35 perms @ 2"
Dimensional Stability[ii] (Volume Change after 7 days)	ASTM D2126	-4% @ 158°F & 97% RH
Tensile Strength	ASTM D1623	3 psi
Air Permeance @ 3.5"	ASTM E283	0.0013 cfm/ft²
Water Absorption (% Volume)	ASTM D2842	33%
Open Cell Content	ASTM D6226	97%
Fungi Resistance	ASTM C1338	No Growth
Re-entry – worker Re-occupancy	ASTM D8445	1 hour 2 hours
Colour	Material	Cream

Burn Characteristics

Attribute	Standard	Test Results
Flame Spread	ASTM E84	15
Smoke Development	ASTM E84	450
Surface Burning Characteristics @ 4”	ASTM E84	Class 1 (A)
Unvented Attic WIthout Ignition Barrier	UVA	Walls - 18” Ceiling - 18”
Ignition Barrier 4 mils WFT DC 315	AC377 Appendix X	Walls - 8” Ceiling - 12”

All testing performed by an accredited independent third-party test facility
ii - Dimensional Stability tested without substrate

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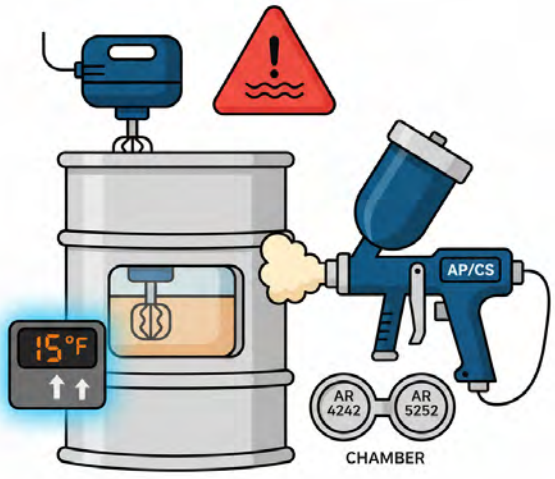
Processing Parameters:

Pressures (dynamic):	**1000-1500psi**
Preheat Temperature:	**A and B, 120-1300F**
Hose Temperature:	**120-1300F**
Drum Temperature in Use:	**68-860F**
Surface Temperature:	**14-1200F**



For optimal processing of ocSPF, Bazz Foam recommends the above parameters in use with a Graco Fusion AP/CS gun equipped with an AR 4242 to an AR 5252 chamber. The use of larger gun chambers may result in diminished yield and physical properties. Mix the resin component for a minimum of 30 minutes with an electric or pneumatic mixer prior to use (Graco expanding blade mixer). Additional mixing throughout the day may be required based on ambient temperature.The materials can be circulated through the processing equipment to raise the temperatures in the drums. Care should be taken to not overheat the material as this could have adverse effects on the performance.

Adhesion:

Substrates must be free of grease, oil, dirt, and surface moisture. Moisture content of porous materials must be below 19% before application of foam. Manufacturer can be contacted for material compatibility, surface preparation techniques and adhesion on commonly encountered construction materials. It is up to the builder or designer to determine the suitability of the material for any project. The installer must verify the compatibility of the product at the time of application due to the variability of weather conditions, material suppliers and site conditions which may impact the performance of the product.

Liquid Component Characteristics:

Component A :	**150-250 cps** @ 77°F (Viscosity)
	1.24kg/L sg @ 77°F (Specific Gravity)
Component B :	**500-100 cps** @77°F (Viscosity)
	1.15 kg/L sg @ 77°F (Specific Gravity)
Mix Ratio by Volume:	**1:1 of A:B**

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Storage Recommendation:

All material provided by **Bazz Foam** are to be sealed until ready for use. Keep drums closed during storage and out of a humid environment.

A nitrogen blanket should be used in ISO barrels for long term storage. ISO and resin barrels should be sealed when not in use. A desiccant air dryer should be used on Iso barrel to allow pressure to equalize in drum when in use. Keep drums out of direct sunlight. To ensure proper longevity of the products, unopened materials should be indoors within the temperature ranges referenced below. Please see chart below for shelf life of materials:

Shelf Life	Bazz Air NM Part B Resin – 6 months	Bazz ISO Part A 12 months
Storage Temperature Recommendations	64-86°F	64-86°F

Precautions:

Like many construction materials, spray polyurethane foam is a combustible product. Therefore, installers and occupants are to take precautions and safety measures to ensure the foam does not come into contact (within 3") of any devices that have a surface temperature exceeding 180°F. Once application is completed, foam shall be protected with a thermal barrier in accordance with the local building code requirements for a suitable thermal barrier (e.g. drywall).

Health and Safety Handling:

When spraying or handling Bazz Air NM ISO and resin the following protective steps and equipment are recommended:

Protective Equipment

- Fabric coverall (nonporous)
- Nitrile gloves
- Protective eyewear
- Supplied full face fresh air respirator (while spaying)
- Use personal protective equipment (see SDS)

Exposure

- Avoid all contact with skin
- Avoid all contact with eyes
- Do not ingest
- Do not inhale vapors

In case of exposure, please refer to the SDS for first-aid measures.

Spills

In case of spills, contain and collect spillage with a noncombustible absorbent material, such as: sand, earth, clay-based oil absorbent (kitty-litter),

Disclaimer: Technical information as shown in this document is intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product.

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