

Spray Polyurethane Foam Insulation/Air Barrier

Product Description:

PROSEAL™ HFO is a closed cell, medium density, spray applied polyurethane foam insulation. PROSEAL HFO is a unique ccspf insulation in the industry as it employs a 4th generation blowing agent. The product is manufactured on site by qualified installers using specialized equipment that mixes a two component foam system. PROSEAL HFO is available in two grades summer and winter.

Performance Benefits:

- **Zero Ozone Depleting** blowing agents
- **GWP of 1 a 99.9% reduction**
- **High recycled content - over 25%** renewable recyclable content (post consumer)
- **New Reaction Technology** – combining high quality raw ingredients with the newest technology which provides consumers with a high quality environmentally friendly low odor spray foam
- **Superior Thermal Performance** - PROSEAL HFO achieves one of the highest R-values of any insulation Product on the market
- **Covers and Seals Completely** – PROSEAL HFO achieved a ratings as a thermal air barrier material. This foam system is manufactured to fill complex cavity spaces to effectively minimize the potential for air leakage.
- **Weathering and Durability** - PROSEAL HFO can be installed on the exterior and left without any cladding for up to 6 months, however all insulation materials should be covered as soon as possible.
- **Technology and Experience** – With the most listed products and the largest variety of spray foam products in USA, PROFOAM offers superior innovative technology and over 20 years experience in urethanes. PROFOAM understands the challenges of the North American climate and formulates its products accordingly.
- **Quality manufacturing and Consistency**- PROSEAL HFO is produced in a state of the art ISO 9001 certified manufacturing facility. Ensuring consistent quality products every time.
- **Vapor Barrier**- PROSEAL HFO is an approved vapour barrier at 1.25 inches.

Applications:

PROSEAL HFO is recommended for use in these typical areas of construction:

- Residential Interior Construction: wall enclosures, ceilings, interior foundation, attic, crawl space, cathedral ceiling, under floor slab, rim joists etc.
- Residential Exterior Construction: walls, foundations, roof, exterior framing, and cantilevered areas
- Industrial construction: Wall enclosures including steel, above or below grade, foundation walls, underfloor slab, underside of deck etc.
- Commercial exterior Construction: walls, foundation walls and underside of roof decks

Ductwork, pipes tanks and a multitude of specialized applications

PROSEAL HFO Typical Physical Properties:

Attribute	Test Method	Evolution Results
Core Density	ASTM D1622	1.98lb/ft ³
Water Vapour Perm. 2 inch sample	ASTM E96	23ng/(Pa·s·m ²) <1 perms
Flame Spread	ASTM E84	Class 1
Dimensional Stability	ASTM D2126** Volume % (28 Days)	<25 -4°F, -1% 176°F, +8%
Air Permeance	ASTM E2178	.0002 L/s
Hot Surface test	ASTM C411	194°F
Tensile Strength	ASTM 1623	40 psi
Open cell content	ASTM D2856	<3.0%
Compressive Strength	ASTM 1621	26.2 psi
Water Absorption	ASTM D2842	.5%
Volatile Organic Emissions	CAN/ULC S774	PASS
Aged Thermal Resistance	ASTM C518 90 day aged	R-7.1
Initial Thermal Resistance	ASTM C518	R-7.6
ICC	Material Listing	ESR-3809

All testing performed by an accredited independent third-party test Facility*
Dimensional Stability was tested without a substrate**

Approvals and Certifications:

- Meets the material requirements of AC 377
- Installed by ISO Certified applicators
- **GreenGuard Gold Certified** – ensures product is acceptable for use in schools and healthcare facilities.

Application Information:

A minimum of ½” and a maximum of 3.0” per pass are required as per the guidelines of the Profoam application standard. Temperatures of initial pass will be recorded to ensure that the core temperature is below 110°F. before applying the second pass ,this will ensure adequate cooling time has occurred . This process will be repeated for each additional pass to ensure proper heat dissipation.

Apply foamed-in-place polyurethane insulation only when surfaces and ambient temperatures are within manufacturers' prescribed limits.

Substrate temperature for Standard Grade: 50-122°F

Substrate temperature for Winter Grade: 14-77°F