

EXY 34 HFO

Closed-Cell Spray Insulation

Product Design

EXY 34 HFO is new generation of spray polyurethane foam insulation with closed cell structure. **EXY 34 HFO** is most effective insulation product on the market, excellent thermal resistance in small thickness. Excellent insulating parameters throughout the life of the building, quick and effective insulation solution.

Product Use

As part of thermal insulation systems for thermal insulation of residential and commercial buildings. **EXY 34 HFO** provides excellent insulating and thermal properties, reduces heat transfer and prevents moisture penetration thanks to a solid insulating layer. **EXY 34 HFO** moves the dew point outside the building structure. Fast and effective isolation.

Recommended Product Applications

- Walls
- Floors
- Cold Storage
- Attics
- Sheet metal halls
- Peripheral Walls
- Freezers
- Ceilings
- Foundations
- Tanks, swimming pools

Surface temp.	- 5°C to 0°C	10°C and more
Dynamic Pressure	1000-1200 psi	1000-1200 psi
Preheat temp.	40°C - 45°C	40°C - 45°C
Hose heat temp.	40°C - 45°C	38°C - 45°C
Drum temp.	21°C - 25°C	21°C - 25°C

Optimum hose pressure and temperature may vary as a function of the type of equipment, application and surface. It is the responsibility of the applicator to check the final foam quality, follow the technical instructions and properly set up the spraying technology according to technical literature. The surface must be cured, dry, free of loose dirt or any contaminants that may interfere with adhesion of any of the respective components.

Material shelf life

4 months when stored within recommended temperature range. Unless otherwise specified

Physical Properties

Properties	Test Method	Value
Thermal conductivity λ_D (initial) λ_{mean}	EN 14315-1 EN 12667	0,027 W/(m.K) 0,021 W/(m.K)
Core density	EN 1602	34±5 kg/m3
Short-term absorption (surface with skin)	EN 1609	0,143 kg/m2
Compression strength 10% deformation	EN 826:2013	240,95 kPa
Water vapour permeability μ	EN 12086:2013	70,50
CT(Cream time)	Attachment E, EN 14315-1	7 s
GT(Gel time)	Attachment E, EN 14315-1	3 s
TFT(Tack free time)	Attachment E, EN 14315-1	16 s
FRC(Core free rise density)	Attachment E, EN 14315-1	35,80 kg/m3
Sound absorption	EN ISO 11654	Class E, $a_w = 0,15$
Reaction to fire	EN 13501-1+A1 EN 15715:2010	Class E Class B - s1,d0
VOC harmless	EN ISO 16000-10	Pass
Closed cells	EN 4590:2017	94 %
Deformation 20 kPa, (80±1)°C, (48±1) hours	EN 1605	≤ 3,19 %

Thickness EXY 34 HFO	R thermal resistance value (m.W/K)	Declared aged thermal conductivity (λ_D) W/m2.K
30 mm	1,05	0,028
40 mm	1,50	0,028
50 mm	1,85	0,028
60 mm	2,20	0,028
70 mm	2,55	0,028
80 mm	3,05	0,027
90 mm	3,45	0,027
100 mm	3,85	0,027
130 mm	5,05	0,026

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These values refer to the total thickness of the product tested. the maximum thickness allowed per pass or application must not exceed of 7 cm per expanded foam. The foam should be allowed to cool for 15 minutes before additional applications of foam are attempted. Foam applied without allowing for cooling may result in, but is not limited to excess heat build-up and result in fire or the generation of offensive odors that may not dissipate with time.

Handling and Safety

Respiratory protection is MANDATORY! HONTER requires that supplied air and a full face mask be used during the application of any spray applied foam system. Contact HONTER for a copy of the Model Respiratory Protection Program or visit their web site at <http://osha.europa.eu/en/>. Persons with known respiratory allergies should avoid exposure to the "A" component. The "A" component contains reactive isocyanate groups. The materials must be handled and used with adequate ventilation. Avoid breathing vapors. Wear an approved full face mask. If inhalation of vapors occur, remove victim from contaminated area and give oxygen, if breathing is difficult, call a physician immediately. Avoid contact with skin, eyes, and clothing.

Open drums carefully, allowing any pressure to be relieved slowly and safely. **Wear chemical safety goggles and nitril gloves when handling or working with these materials.** In case of eye contact flush with plenty of water for at least fifteen minutes and consult with doctor immediately. In case of skin contact, wash area with soap and water. Wash clothes before reuse.

CAUTION: Foams with Solstice LBA are very sensitive to contamination. Particular care must be taken when changing the "B" polyol component between the open and the closed cell structure with HFC blowing agent. Do not add materials from other manufacturers to the "A" and "B" components!

Storage

Drums must be stored closed very well on a pallet. This product is very sensitive to moisture. Recommended storage temperature is 15°C to 22°C. The temperature should not reach above 30 °C. Recommended working drum temperature is 20+°C

In Case of Spills or Leaks Steps To Be Taken

- Utilize appropriate personal protective equipment (PPE).
- Contain and cover spilled material with absorbent materials
- Shovel absorbent waste material into proper waste containers.
- Wash the contaminated areas thoroughly with hot, soapy water.
- Ventilate area to remove vapors.

In Case of Fire

Suitable extinguishing Media- water, dry extinguishing agents, carbon dioxide and foam.

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