



TECNOFOAM I-2035 - POLYURETHANE FOAM FOR INJECTION (APPLIED DENSITY ± 35 KG/M³)

TECNOFOAM I-2035 is a system composed of two components (polyol and isocyanate) produces polyurethane foam of an applied density from 35 to 45 kg/m³, is suitable for injection isolation application as on ducts, tubing, colds stores, and rooms. The blowing agent is HFCO gas.



USES

The polyurethane foam for injection TECNOFOAM I-2035 system³, can be used in these situations:

- it is specifically designed for thermal insulation, industry, farming or agricultural facilities.
- filling industrial pipes and parts for thermal insulation

NOTE: For other applications/situations, please, consult our technical department

applied density	35~45 kg/m ³
thermal conductivity	0,022 W/m.K
fire reaction	Euroclass F
close cell content	CCC4(>90%)
application method	specific equipment



GENERAL FEATURES

- TECNOFOAM I-2035 is a product with high insulating capacity, easy to apply to cover all surfaces
- the application and training are done by our spray equipment TC2049 (spray-equipment.tecnopolgroup.com) or similar
- it does not emit any substance to the environment once installed.
- the properties of this polyurethane foam system allow it to adhere to any surface such as concrete, ceramic, metal, polyurethane foam, wood, acrylic paints (checking the situation of areas recommended).
- the application of TECNOFOAM I-2035 is made without unions between applications, and providing an optimum thermal insulation surface with high thermal insulation parameters
- it has CE mark on the basis of a declaration of performance DoP prepared in accordance with EU regulation 305/2011. www.tecnopol.es or statement available on demand.



PACKAGING

Metal drums of 250 kg for each product (polyol and isocyanate)

SHELF LIFE

POLYOL COMPOUND: 3 months

ISOCYANATE COMPOUND: 6 months

Temperature within 5 °C ~ 35 °C, provided it is stored in a dry place, nondirect contact with the sun.

APPLICATION METHOD

In general, you should take the following factors:

- the application of polyurethane foam system TECNOFOAM I-2035 should be performed under non-presence of moisture or water from the support stand on which to apply either at the time of application as a posteriori.
- the substrate must be clean and free of dust
- SHAKE STRONGLY POLYOL COMPONENT, TO SO ENSURE THE UNIFORMITY
- injecting the mixed product through the reactor equipment, through perforations located on the element to be insulated.
- consider that the time of expansion of the two components, once mixed is one 25 ~ 30 seconds.
- repeat this action as many times as necessary to fill the entire element

APPLICATION REQUIREMENTS (REACTOR EQUIPMENT)

For the formation of TECNOFOAM I-2035 polyurethane foam, it's necessary to mix the two components, polyol and isocyanate, through a specialized reactor equipment. (Proper reactor equipment maintenance and cleaning it's necessary too). Stir the polyol component before the mixing, is recommended.

The most general parameters of this equipment are as follows:

- Heater isocyanate temperature: 40~45 °C
- Heater amines temperature: ±35~45°C
- Hose temperature: ± 35~45 °C
- Pressure: >1200-1600 psi(the exact pressure depends on the kind or needs of the application)

These temperature and pressure parameters have to be valued, ratified or be varied by the applicator, depending on the conditions of each climate zone, weather situation or as projection equipment specifications.

HANDLING

These safety recommendations for handling, are necessary for the implementation process as well as in the pre and post, on exposure to the loading machinery.

- Respiratory Protection: When handling or spraying use an air-purifying respirator.
- Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking or smoking.
- Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in the air.
- Waste: Waste generation should be avoided or minimized.
- Incinerate under controlled conditions in accordance with local laws and national regulations.



Anyway, consult the material and safety data sheet of the product



TECHNICAL DATA (ACCORDING TO DECLARATION OF PERFORMANCE)

Essential characteristics	Performance	Harmonized technical specification
Fire reaction	Euroclass F	EN 13501-1:2007
Water absorption (short term by partial immersion)	Wp <0,25 kg/m ²	EN 1609
Thermal resistance	See performance chart	EN 12667:2002
Water vapor permeability	Water vapor resistance factor: $\mu=10$	EN 12086
Compression	No performance declared (NPD)	
Compressive strength	No performance declared (NPD)	EN 826
Durability of reaction to fire against aging/degradation	Reaction to fire does not decrease with time	EN 14315-1:2013
Durability of thermal resistance against aging/degradation	See performance chart	EN 14315-1:2013
Durability of the compressive strength against aging/degradation	Compressive strength does not decrease with time	EN 14315-1:2013
Continuous glowing combustion	No harmonized test method available	EN 14315-1:2013

To obtain more information, consult the full document Declaration of Performances of the particular system (consult our technical department).

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