TECNOFOAM I-2008 - POLYURETHANE FOAM FOR INJECTION (APPLIED DENSITY ±12 KG/M³)

TECNOFOAM I-2008 is a system composed of two components (polyol and isocyanate) produces polyurethane foam of an applied density from 12 to18 kg/m ³, is suitable for acoustic isolation uses. The blowing agent is water.

It has CE marking on the basis of a statement made DoP Declaration of Performance (DoP) conforms to the UE 305/2011 regulation.

USES

The polyurethane foam for injection TECNOFOAM I-2008 system can be used in these situations:

- it is specifically designed for thermal insulation, industry, farming or agricultural facilities.
- In applications ceilings, interior chambers facade ventilated facades.

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

applied density	12~18 kg/m³
thermal conductivity	0,035 W/m·k
gel time	8 ~ 12 secs
tack-free time	35 ~ 45 secs
fire reaction	Euroclass F
close cell content	<15%(CCC1)
application method	specific equipment

GENERAL FEATURES

- TECNOFOAM I-2008 is a product with high insulating capacity, easy to apply covering all surfaces
- the blowing agent is water
- the application and training is done by our spray equipment TC2049 (spray-equipment.tecnopolgroup.com) or similar
- TECNOFOAM I-2008 system is 100% recyclable by mechanical means friendly to the environment
- it is free from harmful to the ozone layer, so do not promote the greenhouse effect (NOT contain HFCs, HCFCs, VOCs, etc ...).
- GWP(Global Warming Potential)=1
- ODP (Ozone Depletion Potential)=0

- TECNOFOAM I-2008 system is 100% recyclable by mechanical means friendly to the environment
- the heat transfer coefficient is unchanged from ? placement and along with the product life unlike the foam produced from gas low boiling.
- 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-2008 is made without unions between applications, and providing an optimum thermal insulation surface with high thermal insulation parameters
- it has a 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 the isocyanate side, and 220 kg for the polyol side

SHELF LIFE

POLYOL COMPOUND: 3 months

ISOCYANATE COMPOUND: 6 months

Temperature within 5 ºC ~ 35 ºC, provided it is stored in a dry place, no direct contact with the sun.

APPLICATION METHOD

In general, you should take the following factors:

- the application of polyurethane foam system TECNOFOAM I-2008 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 ENSURE THEIR 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

For the formation of TECNOFOAM I-2008 polyurethane foam, it's necessary to mix the two components, polyol and isocyanate, through 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: 35~45 ºC
- Heater amines temperature:±35~45ºC
- Hose temperature:± 35~45 ºC
- Pressure:>1700-600 psi(the exact pressure depends on the kind of needs of the application)
- Mixing ratio(recommended): GU-0087-3/GU-0087-4/GU-0087-5

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 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 <2,5 kg/m²	EN 1609
Thermal resistance	See performance chart	EN 12667:2002
Water vapor permeability	Water vapor resistance factor: μ=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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