



## TECNOFOAM I-2008 - POLYURETHANE FOAM FOR INJECTION (APPLIED DENSITY $\pm 12$ KG/M<sup>3</sup>)

TECNOFOAM I-2008 is an injection polyurethane foam system for thermal insulation, is specifically formulated to apply foam with applied density around ( $\pm 12$ ~ $18$  kg/m<sup>3</sup>). Its application must be carried out by the specific reactor equipment by mixing Tecnofoam I-2008 (polyol side) and Tecnofoam G-2049.I (isocyanate side). The blowing agent is water.



## 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/m <sup>3</sup>
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



## COLORS



## GENERAL FEATURES

- TECNOFOAM I-2008 is a product with a high insulating capacity, easy to apply to fill spaces.
- the application and training is done by our spray equipment TC2049 ([spray-equipment.tecnopolgroup.com](http://spray-equipment.tecnopolgroup.com)) or similar
- the blowing agent is water



- 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 ...); it does not emit any substance to the environment once installed.
- 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 thermal conductivity (?) coefficient remains unchanged from the application and along with the product life.
- 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

## PACKAGING

Metal drums of 250 kg for the isocyanate side, and 220 kg for the polyol side

## SHELF LIFE

POLYOL COMPOUND: 3 months (stir before the mixing)

ISOCYANATE COMPOUND: 6 months

Temperature within 5 °C ~ 35 °C, provided it is stored in a dry place, with 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 (SPRAY EQUIPMENT)

For the formation, it is necessary to mix the two initial liquid components, isocyanates and polyols with our spray equipment TC2049 ([spray-equipment.tecnopolgroup.com](http://spray-equipment.tecnopolgroup.com)) or similar (proper maintenance and cleaning it is recommended).

The general parameters for this material will be the following:

- Heater isocyanate temperature: 35~45 °C
- Heater polyol temperature:±35~45°C
- Hose temperature:± 35~45 °C
- 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.

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are only intended for sale to industrial and commercial customers. The customer assumes full responsibility for quality control, testing, and determination of the suitability of products for its intended application or use.

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