ATK FOAM D8 - SPRAY POLYURETHANE FOAM (SPF) SYSTEM FOR THERMAL INSULATION(APPLIED DENSITY ±8 KG/M³)

ATK FOAM D8 thermal insulation open cell polyurethane system ATK FOAM D8 is specifically formulated to apply low density foam (±8~10 kg/m³). Its application has to be done by the specific spray equipment. The blowing agent is water

USES

The polyurethane foam system ATK FOAM D8 can be used in these situations:

- application continuous thermal insulation systems in residential buildings, businesses or industries
- indoor applications ceilings, interior chambers facade, ventilated facades, internal side of roofs, made with wood structure, or other material (see compatibility)

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

applied density	± 8~10 kg/m³
reaction to fire	Euroclass E
thermal conductivity	0,038 ± 0,001W/m·K
emissions(VOC)	A+aC
application	spray equipment

GENERAL FEATURES

- ATK FOAM D8 is a product with high thermal insulating capacity, easy to apply and to protect all the internal surfaces of the building
  the blowing agent is water
  it is free from harmful to the ozone layer, so do not promote the greenhouse effect (NOT contain HFCs, HCFCs, VOCs, etc ...).
  ATK FOAM D8 system is 100% recyclable by mechanical means friendly to the environment
  no gas collection for recycling and / or destruction is required
  the heat transfer coefficient is unchanged from placement and along 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 the polyurethane foam system ATK FOAM D8 allow it to adhere to any surface such as

concrete, ceramic, metal, polyurethane foam, wood, acrylic paints (checking the situation of areas recommended).
ATK FOAM D8 is a continuous thermal insulation system, instead of classic non-continuous thermal materials. It saves any kind of union between applications, providing a surface with optimum thermal insulation parameters
it has CE mark on the basis of a declaration of performance DoP prepared in accordance with EU regulation 305/2011. or statement available on demand.

YIELD

The performance is around 1kg/m², thickness of 10 cms.

PACKAGING

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

SHELF LIFE

POLYOL COMPOUND: 6 months(need to be shaken before use)

ISOCYANATE COMPOUND: 12 months

Temperature within 5 ºC ~ 35 ºC, provided it is stored in a dry place, non direct contact with sun.

APPLICATION METHOD

In general, you should take the following factors:

the application of polyurethane foam system ATK FOAM D8, 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
in applications with high temperature gradients a vapor barrier is placed on the warm side of the insulation to prevent condensation
metal surfaces should be protected with an anti corrosive primer before being coated with foam. On smooth surfaces without pores, galvanized steel, polypropylene, etc ... a secure grip primer should be applied
applied in one direction to achieve the expansion which is about 10 ~ 12 cm.
if necessary, and once fully expanded, apply a second layer on the already initially applied. its
great expansion causes sometimes have to cut the excess with the help of a saw
ATK FOAM D8 adheres firmly on most common materials such as wood, plasterboard, steel, OSB, plywood, cement, inside masonry exterior plaster panels, and construction itself.
reactivity times (in laboratory conditions):

REACTING TIME: 4-8 seconds
EXPANDING TIME: 11-15 seconds

APPLICATION REQUIREMENTS (SPRAY EQUIPMENT)

For the formation, it is necessary to mix the two initial liquid components, isocyanates and amines by your spray equipment /proper maintenance and cleaning it is recommended. The general parameters for this material, will be the following:

Heater isocyanate temperature: ±40-45 ºC
Heater amines temperature:±45-55ºC

Hose temperature:±45-50ºC
Pressure:115-135 bar

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 air. Waste: Waste generation should be avoided or minimized.
Incinerate under controlled conditions in accordance with local laws and national regulations.

Anyway, consult the safety data sheet of the product, are publicly available.

TECHNICAL DATA (ACCORDING DECLARATION OF PERFORMANCE)

Essential characteristics	Performance	Harmonized technical specification
Fire reaction	Euroclass E[1]	EN 13501-1:2007
Water absorption (short term by partial immersion)	Wp 13,8 kg/m²	
Thermal resistance (conductivity ?90/90)	0,033W/(m.K)initial 0,038 W/(m.K)aged	EN 12667:2002
Water vapor permeability	Water vapor resistance factor: μ=4,6	EN 12086
Compressive strength	No performance declared (NPD)	EN 826
Durability of reaction to fire against ageing/degradation	Values after aging	EN 14315·1:2013
Verification of the composite emissions' absence CMR 1 o 2	Satisfaction a § 4.3.7 of the norm > YES	NF EN ISO 16000-3/-6/-9/-11
Regulatory labeling	Emission class: A	NF EN ISO 16000-3/-6/-9/-11

[1] B-s1,d0, with plasterboard

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

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