Poliuretan Spray S-OC-008E

Isocianato H

DESCRIPTION

Poliuretan Spray S-OC-008E is a thermo-acustic two-component polyurethane system comprising polyol, and isocyanate. The system is "in situ" sprayed and open cell low-density foam (7-10 g/l) with acoustic absorption properties is obtained.

Poliuretan Spray S-OC-008E system does not contain ozone depleting blowing agents.

CE

COMPONENTS

COMPONENT A: **Poliol S-OC-008E**
Mixture of polyols, containing catalysts and flame-retardants

COMPONENT B: **Isocianato H**
MDI polymeric (diphenyl methane diisocyanate)

MARCA N AENOR

Poliuretan® Spray S-OC-008E have been awarded with the **AENOR N Certificate** to product quality for thermal insulation materials and their use in building, according to the contract number: 020/000186.

AENOR Producto Certificado Aislante Térmico

USES

The **Poliuretan Spray S-OC-008E** system is applied with a high-pressure spray equipment, which is heating outfitted, with a mixing ratio of 1:1 in volume. The applications can be the improvement in acoustic insulation to airborne noises for building enclosures such as partition walls, as well as for filling building cavities and cracks.

Application advantages:

- Total suppression of acoustic and thermal bridges. This system does not present joints or gaps since it is a continuously applied product.
- Good adherence to the substrate. Nor glues or adhesives are needed for its installation.
- Mobility. It is possible to get quickly to any site without having to transport or store bulky products like other acoustic and/or thermal insulating materials.

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CONDITIONS OF USES

Before use, component a **Poliuretan Spray S-OC-008E** must be homogenised at light agitation, with a suitable mechanical mixer. The component A drum is specially designed to be used under such conditions.

During the application it is important to avoid the excessive overlapping of the successive sprayings that are necessary to cover the surface. This reduces means the irregularities in the sprayed surface and the thickness is better controlled.

During the application and depending on the weather conditions, certain quantities of steam forming white clouds could be released from the foam. These vapours do not involve any risk to human health. In any case, it is recommended to ventilate the area before proceeding with the work in order to avoid high vapour concentration that may result uncomfortable.

The recommended initial heater and hose setpoint temperature is in the range of 50-60ºC depending on the weather conditions and a working setpoint pressure of 800-1200 psi. The minimum recommended substrate temperature during spraying is 5ºC and the component temperature is 20-30ºC.

COMPONENTS CHARACTERISTICS

Characteristics	Units	H	S-OC-008E
Specific weight 25ºC	g/cm^3	1,23	1,06
Viscosity	cPs	150 - 250 (25ºC)	0 - 300 (22ºC)
NCO content	%	30 - 32	-

SYSTEM SPECIFICATIONS

Test beaker measurements at 22ºC at the indicated mixing ratio and according to our Standard Test (MAN-S01) and in accordance with Annex E of the standard EN 14315-1.

Characteristics	Units	S-OC-008E
Cream time	s	5 ± 2
Gel time	s	11 ± 4
Tack free time	s	14 ± 5
Free rise density	g/l	8 ± 1

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FOAM PROPERTIES

Características		Unidades	S-OC-008E
Apparent Core Density	EN 1602	kg/m^3	8,5 ± 1,5
Closed Cell Content	ISO-4590	%	< 20
Thermal resistance and termal conductivity	EN 12667 EN 12939		See performance chart
Reaction to fire	EN 13501-1	Euroclass	E(1)
Water absorption (W_p)	EN 1609	Kg/m^2	≤ 16
Water vapour resistance factor (μ)	EN 12086	-	≥ 5

(1) Result of valid test for any applied thickness (60 mm of thickness)

Performance chart

Sprayed insulation foam product CCC1 system. Diffusion open faces.

e_p	35	40	45	50	55	60	65	70	75
λ_D	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038
R_D	0,90	1,05	1,15	1,30	1,45	1,55	1,70	1,85	1,95
e_p	**80**	**85**	**90**	**95**	**100**	**105**	**110**	**115**	**120**
λ_D	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038
R_D	2,10	2,25	2,35	2,50	2,60	2,75	2,90	3,00	3,15
e_p	**125**	**130**	**135**	**140**	**145**	**150**	**155**	**160**	**165**
λ_D	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038
R_D	3,30	3,40	3,55	3,70	3,80	3,95	4,10	4,20	4,35
e_p	**170**	**175**	**180**	**185**	**190**	**195**	**200**	**205**	**210**
λ_D	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038
R_D	4,50	4,60	4,75	4,90	5,00	5,15	5,25	5,40	5,55
e_p	**215**	**220**	**225**	**230**	**235**	**240**	**245**	**250**	**255**
R_D	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038
R_D	5,65	5,80	5,95	6,05	6,20	6,35	6,45	6,60	6,75
e_p	**260**	**265**	**270**	**275**	**280**	**285**	**290**	**295**	**300**
λ_D	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038	0,038
R_D	6,85	7,00	7,15	7,25	7,40	7,55	7,65	7,80	7,90

e_p Thickness; mm
λ_D Declared aged thermal conductivity; (W/mK)
R_D Thermal resistance level; (m^{2}K/W)

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STORAGE RECOMMENDATIONS

Components A and B are sensitive to moisture, and must be stored in hermetically sealed drums or hermetic containers. Storage temperature must be kept between +10ºC and +30ºC. Avoid lower temperatures that may build up crystallizations in the isocyanate, as well as higher temperatures that may alter the polyol and produce swelling of the drum.

Properly stored, the shelf life is 4 months for the Component A (polyol) and 9 months for the Component B (isocyanate).

SAFETY RECOMMENDATIONS

Properly handled **Poliuretan Spray S-OC-008E** system does not present significant risks. Avoid contact with eyes and skin. The instruction given in the Safety Data Sheet must be followed during the manufacturing and handling of the system.

SUPPLY

Normally, the product is supplied in non-returnable steel drums of 220 litres (blue for Component A and black for Component B)

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