

Elastospray® LWP 1672/10/I
Low Warming Potential

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Application

The system Elastospray® LWP 1672/10/I is a 4th generation in-situ sprayed closed-cells polyurethane foam used for thermal insulation of buildings. This system is suitable to be used in walls, ceilings and floors.

The system is free of ingredients that contribute to global warming due to the greenhouse effect or that deplete the ozone layer.

Intended use: Thermal insulation of buildings

The spray method can be used in a wide range of applications, including buildings, refrigerated storerooms, warehouses, tanks, ships, etc. Aside from its excellent properties as an insulation material, this technique has the following advantages:

- Elimination of thermal bridges. The insulation material is continuous, without joints or cracks, even in hard-to-reach places.
- Excellent adhesion to the substrate. The spray foam bonds to most surfaces without the need for glues or mechanical fasteners.
- Speed of application and mobility. The in-situ production allows for quick transport, without the need for moving and storing high-volume materials, typical for other types of insulation materials.
- The spray process is especially suitable for insulating large surfaces, including irregularly shaped surfaces

Chemical Characteristic

A-component	Elastospray® LWP 1672/10/I - Polyol-Component mixture of polyether- and/or polyesterpolyol, stabilizer, flame retardant, catalyst and blowing agent - Trans-1-Chloro-3,3,3-trifluoropropene - The product contains fluorinated greenhouse gases according to regulation (EC) 2024/573.
B-component	IsoPMDI 92140 - polymeric Diphenylmethane Diisocyanate

Supply

The type of supply for the components will be decided after consultation with our Sales Office.

Handling and Storage

Polyurethane components are sensitive to moisture. They must therefore always be stored in tightly sealed containers.

Safety-relevant information can be found in the safety data sheets of the components.

See section No. 7: Handling and Storage

Hazards Identification

Information on possible hazards in handling of the components, can be found in the safety data sheets.

See section No. 2: Hazards Identification

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Disposal Considerations

Information on disposal can be found in the safety data sheets of the components.
See section No. 13: Disposal Considerations

Regulatory Information

Regulatory information can be found in the safety data sheet of the components.
See section No. 15: Regulatory Information and section No. 16: Other Information

Handling and installation instructions:

Guide for the Application of Elastospray LWP, SKYTITE LWP and ENERTITE Systems

CEN KEYMARK

This spray foam product is also certified with the CEN KEYMARK SCHEME for thermal insulation products indicating the conformity with the Standard EN 14315-1.
Elastospray® LWP 1672/10/I – Certificate no. 001-BK-551-28710-0001-01

Component Data (tested according to BASF methods)

Characteristic	Unit	Data	Test Method
Component		A	
Product Description		Elastospray® LWP 1672/10/I	
Temperature - A-Component	°C	25	
Density	kg/m ³	1180	G 133-08
Viscosity	mPa s	280	G 133-07
OH-number	mg/KOH/g	260	G 133-01
Shelf Life - as of production date	d	120	
Component		B	
Product Description		IsoPMDI 92140	
Temperature - B-Component	°C	25	
Density	kg/m ³	1230	G 133-08
Viscosity	mPa s	220	G 133-07
NCO-Content	%	31.5	G 133-06
Shelf Life - as of production date	d	180	

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Guide formulaion, Reaction profile and Free Rise Density

Guide Formulation	Unit	Amount
Parts by weight A-component	pbw	100
Parts by weight B-component	pbw	104

Hand mixing - Cup test (by BASF method in accordance with the method described in EN 14315-1)

Characteristic	Unit	Data	Test Method
Component temperature	°C	20	
Mixing ratio A:B	pbw	100:104	
Mixing ration A:B - volumetric	pbv	100:100	
Weight A	g	39	
Weight B	g	41	
Stirring time	s	3	G 132-01
Cream time	s	4	G 132-01
Gel time	s	7	G 132-01
Tack free time	s	9	G 132-01
Beaker free rise density - FRB	kg/m ³	33	G 132-01

Process

The spraying process consists of projecting a pulverized mixture of the two components onto surface which is meant to be insulated. The mixture reacts on the surface, adhering to it instantaneously, and expands into rigid foam.

The following conditions should be observed for the correct application of the system:

Machine conditions:

Mixing Ratio of Components: 1:1 (Volume)

Components temperature: 30 - 50 °C

Components pressure: 60 - 120 bar

Environmental conditions:

Ambient temperature: between +5 and +40 °C

Relative humidity: < 85 %

Wind speed: ≤ 30 km/h

Substrate conditions:

Substrate temperature: between +5 and +40 °C

Substrate humidity (porous substrates): ≤ 20 % (Concrete ≤ 5%)

Substrate humidity (nonporous substrates): without condensations on substrate

IMPORTANT: When applying thick layers (3 – 4 cm), it is very important to wait a minimum of 5 to 10 minutes between passes, depending on the ambient temperature, in order to give the foam enough time to release the heat coming from the exothermic reaction, otherwise it can occur delamination.

The distance from the spray gun to the substrate is recommended to be approx. 80 cm.

	Unit	Data
Foam density range - Indicative	kg/m ³	34 - 41
Layer thickness - Recommendation	mm	15 - 45

Remark for foam density range: this is depending on application technique and conditions. Non-binding recommendations for processing

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CE Marking



BASF Española S.L.

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EU CE - DOP-No.: **ES19-0017-04-CPR-18**

www.elastospray.eu/dop

EN 14315-1:2013 + NB-CPR/SG19-22/213r1 (22/12/2022)

In-situ formed sprayed rigid polyurethane (PU) foam system

ThIB – Thermal Insulation for Buildings

Reaction to fire – **E (valid for all thicknesses)**

Thermal conductivity: **see performance chart**

Water permeability (expressed as short term water absorption by partial immersion): **max. 0,20 kg/m²**

Water vapour transmission (expressed as water vapour resistance factor μ): **NPD**

Compressive strength: **min. 150 kPa**

Continuous glowing combustion: **no harmonized test method available**

Durability of reaction to fire against ageing/degradation: **reaction to fire does not decrease with time**

Durability of thermal resistance against ageing/degradation: **see performance chart**

Durability of compressive strength against ageing/degradation: **compressive strength does not decrease with time**

PU EN 14315-1-CCC4-CT4(20)-GT7(20)-TFT9(20)-FRB33(20)-W0,2-CS(10/Y)150-DLT(2)5

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Performance Chart (in accordance with EN 14315-1)

Type of facing: None or diffusion open			Type of facing: None or diffusion open		
Thickness	Declared aged thermal conductivity (λ_D) W/m·K	Thermal resistance level (R_D) $m^2 \cdot K/W$	Thickness	Declared aged thermal conductivity (λ_D) W/m·K	Thermal resistance level (R_D) $m^2 \cdot K/W$
40 mm	0,027	1,45	130 mm	0,025	5,25
45 mm	0,027	1,65	135 mm	0,025	5,45
50 mm	0,027	1,85	140 mm	0,025	5,65
55 mm	0,027	2,05	145 mm	0,025	5,85
60 mm	0,027	2,20	150 mm	0,025	6,10
65 mm	0,027	2,40			
70 mm	0,027	2,60			
75 mm	0,027	2,80			
80 mm	0,026	3,10			
85 mm	0,026	3,30			
90 mm	0,026	3,50			
95 mm	0,026	3,70			
100 mm	0,026	3,90			
105 mm	0,026	4,10			
110 mm	0,026	4,25			
115 mm	0,026	4,45			
120 mm	0,025	4,85			
125 mm	0,025	5,05			

Declared aged thermal conductivity value (λ_D) at 10 °C calculated with statistical procedure 90/90 and rounded upwards to the nearest 0,001 W/m·K.

Thermal resistance value (R_D) calculated with aged thermal conductivity at 10 °C and rounded downwards to the nearest 0,05 $m^2 \cdot K / W$.

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Foam Physical Properties declared in the CE Marking and KEYMARK			
Characteristic	Unit	Data	Test Method
Flammability	-	Class E (Valid for all thickness, on naked foam)	DIN EN 13501-1
Compressive strength/-stress - at 10% compression	MPa	0.2	DIN EN 826
Thermal conductivity at 10°C	W/m*K	declared aged value see performance chart	DIN EN 14315-1
Closed cells content	%	≥ 90	DIN EN ISO 4590
Max water absorption (short partial immersion)	kg/m ²	0.2	DIN EN 1609
Max. Deformation (40 kPa, 70°C, 168 h)	%	5	DIN EN 1605

Suitable substrates:

Under favorable weather conditions, this system has a good adhesion to most construction materials (concrete, brick, wood, steel). They must be clean (without dust or grease), dry and, in case of metallic substrates, free of rust. If the adhesion is not acceptable under these conditions, a previous treatment like a primer may be necessary.

Nevertheless, due to the wide range of substrates and primers used in construction, it is not possible to guarantee perfect adhesion of this system to all surfaces. It is therefore recommended to test adhesion in each case.

See our our different application guide (see at point "Handling and installation instructions:") for more detailed information about the general installation process and the suitable substrates.

Complementary Information:

Guide for the Application of Elastospray LWP, SKYTITE LWP and ENERTITE Systems

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