

WATERPROOFING

MONNELI COLMEFOAM LHD

Spray Polyurethane Foam

Product Description

COLMEFOAM LHD is a polyurethane spray foam system for the production of rigid foam with closed cells, used for roofs, walls and floor insulation over metal, concrete and plywood. The system is CFC-free and has Zero Ozone Depletion Potential (Zero ODP) value.

Colmefoam LHD is a composed of Polyol Component (A), a mixture of polyol, catalyst, blowing agent and other additives and Isocyanate-Component (B), a mixture of diphenylmethane- disocyanate, isomers and halogen.

Properties

Properties		Polyol	Isocyanate
Viscocity at 25°C	mPa.s	580-630	180-240
Specific gravity at		1.18	1.22-1.24
Storage temperature	°C	10 - 25	10-25
Color		Light yellow	Brown
Stability	Months	4	6

Lab Reactivity

Cream time	4 - 5	sec
Gel time	8 - 10	sec
Free rise density	30-31	Kg/m³

Physical Properties

Density	40±2	Kg/m ³	BS EN 1602: 2013
Average water absorption Average water vapor transmission	0.90 0.70	% Grains/h.ft²	ASTM C209: 2015 ASTM E96-00
Dimensional stability under specific temperature & humidity	7.0 7.0 2.0	L% W% T%	BS EN 1604: 2013
Closed cell content	>90	No	ASTM D6226-10 Procedure 1
Thermal conductivity	0.024	%	ASTM C518: 2015
Compressive strength at 10% deformation	170	Grains/h.ft ²	BS EN 826: 1996

Tensile strength parallel to faces of thermal insulation	180	kPa	BS EN 1608 : 2013	
Fire behavior	Class F/ B3 Class		BS EN 13501- 1:2007	
Packaging	Part A		Part B	
Packaging	220 Kg		250 Kg	
Machine Conditions		Environment Cond	itions	

			Wind speed ≤ 20 km/r		km/h	
Substrate Conditions	·	•				
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Primer	Flash coat of spray foam (1-2mm)	When needed	
Substrate temperature	Between +10 and +48	°C	
Substrate humidity	≤ 20 Without condensations on substrates	Porous substrates non-porous substrates	

Application

- Must be applied using plural-component spray equipment. The mixture reacts on the surface, adhering to it instantaneously, and expanding into a rigid foam
- Thickness should be between 10-20mm. In order to maintain the designed density and dimensional stability, it is not recommended to apply thicker layers.
- Higher than recommended layer thicknesses, cause a decrease in density and worse dimensional stability of the foam. Very thin layers will increase the density and decrease product yield.
- When applying a total thickness of (>6 cm), it is important to keep a time gap of 10 min between the layers. Longer time gap is necessary for thicknesses above 10 cm
- The distance from the spray gun to the substrate is recommended to be approx. 80 cm.

Storage

The storage life of this product referred to in this data sheet is provisionally 3 months from the time of production date when stored at 25°C.

Health & Safety

The isocyanate component irritates the respiration sytem, eyes and skin. This can have allergic reactions if inhaled or when comes in contact with skin. The required measurements indicated in the safety data sheet should be noted during handling of isocyanate. The same procedure should also be applied during handling of the A system (polyol) considering the risk available.

The information in this Technical Data Sheet is based on Colmef Monneli's experience. Colmef Monneli does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Colmef Monneli's Data Sheets are updated on regular basis. It is the user's responsibility to obtain the latest version.

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