TECHNICAL DATA SHEET

PLSpol 300

PRODUCT DESCRIPTION

- 2 Component Polyurethane closed cell foam for spray application.
- Low free rise density in uniform foam structure.
- Polyol part contains special blowing agent for better insulation properties.
- Easy to cover huge areas by less amount of PU foam.
- Recommended uses area; every kind of concrete/bricks surface and wooden areas as wood finishing, shiplap, pergola areas etc.
- Covering edge and corners by excellent flowability performance.

Component A: Isocyanate PLSiso PP 100
Component B: Polyol PLSpol 300

PHYSICAL CHARACTERISTICS

PARAMETER	COMPONENT (A)	COMPONENT (B)	METHOD
Viscosity MPa.s at25°C	200-500	200-250	ASTM D4878-98
Density kg/m³ at 25°C	1.10-1.20	1.20-1.25	DIN 51 757
Shelf Time - Month	12	6	-
Storage Temperature	15-25°C	15-25°C	-

REACTION PROFILE

PARAMETER	RESULT
Ratio By Volume (A:B)	100:100
Cream Time (s)	4-5
Tack Free Time (s)	8-10
Free Rise Density (kg/m3)	27-29

Sultan Selim, Eski Büyükdere St. No:61 +90 545 611 35 48 info@plutusticaret.com

PROCESS CONDITION

- Mixing ratio of component should be as written above.
- Temperatures of raw materials should be between 35°C-50°C.
- At the process during the application component's pressure should be 60-120 bar.
- Thickness of each layer should be between 1 and 4 cm.
- Ambient temperature should be 5°C- 40°C. At the other conditions Polyurethane chemical structure may be shown different facilities.

Temperature varibles on line during production should be as;
Raw Materials : 35- 50 °C
Component Pressure : 60-120 bar
Relative humidity : Should be less than %85
Wind speed : less than 30 km/h

- It is critical to satisfy required temperature conditions mentioned to obtain desired quality for polyurethane regarding adhesion, foam apperance and curing etc.
- Necessary air should be provided to mixing head to obtain good mixing quality.
- It is recommended to check suitability of the system routine production.

	UNIT	VALUE	STANDARD
Overall Density	kg/m3	31	ASTM D 1622
Core Density	kg/m3	28	ASTM D 1622
	1		
Compressive Strength	kPa	135	ASTM D 1621
Thermal Conductivity	mW/mK	22,33	ASTM C 518
Closed Cell Content	%	> 92	DIN EN 4590
Dimensional Changes	%	max 1%	DIN EN 2786
Fire Class		E	TS EN 13501-1

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Measured values were determined on specimens produced on a laboratory.
Dimension of the specimen: 30 cm X 30 cm X 10 cm
Mixing by a mechanical stirrer at 3000 rpm.

*Tests are done manually in the laboratory. The test was done with the laboratory mixer at 3000 rpm. Component temperature set 20°C during the test. The given values will change for low pressure machine and high pressure machine. The given durations begin with mixing of components.

STORAGE AND HANDLING

Materials should be stored in dry conditions away from direct sources of heat, preferably in the unopened original containers. Opened drums must be reclosed tightly immediately after drawing-off material.

HEALTH SAFETY AND ENVIRONMENTAL INFORMATION

Isocyanate and polyol component, respiratory organs, eyes and skin irritant. It can be allergic reaction, when inhale and in contact with skin. Attention should be paid when using these materials. MSDS information must be read before use. Waste Material Data Sheet Located Methods and Environmental Legislation should be disposed of in accordance.

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