



# Product Data Sheet

## ASMACO PUF 40

### Pre-Blended Spray Polyol.

**ASMACO PUF 40** is a pre-blended rigid polyurethane spray polyol designed for the insulation of roof, wall and floor. When reacted with ASMACO PUF MDI under the recommended reaction conditions, the foam has a good surface finish with excellent cell structure and good adhesion to various substrates. The blowing agent exhibits Zero ODP and <5 GWP.



### STORAGE.

Shelf life: 6 months if stored in sealed moisture tight containers.  
Recommended storage temperature: 20°C — 30°C  
Both components should be stored in their original containers and away from excessive heat and moisture, especially after the seals have been broken or some materials have been used.

### CHEMICAL CHARACTERISTICS

**Polyol Component:** mixture of base polyols, stabilizers, fire retardants, catalysts and blowing agent etc.

**Isocyanate Component:** polymeric diphenylmethane diisocyanate

### HANDLING PRECAUTIONS

Read and understand Safety Data Sheet before handling. Open containers slowly & carefully, allowing any pressure to be relieved safely. The following safety recommendations are necessary for handling:

**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 Protection:** Wear safety goggles to prevent splashing and exposure to particles in the air.

**Waste:** Waste generation should be avoided or minimized. Dispose-off container/contents/foam in accordance with local/regional disposal regulations.

### COMPONENT DATA: ASMACO PUF 40 (POLYOL) & ASMACO PUF (MDI)

Description	Unit	Polyol	MDI
Viscosity at 25° C	mPa.s	330 — 550	180 — 240
SG at 25° C	-	1.12 — 1.16	1.23 — 1.25
Storage stability at 25° C	Months	6	6
Packing	Kg	220 (BLUE)	250 (RED)
Mixing Ratio	Liter	1	1

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## FOAMING DATA (Cup Test):

Typical Foam Properties	Unit	Value	Test Method
Temperature of Component	° C	30	—
ASMACO PUF 40 (Polyol)	pbv	100	—
ASMACO PUF (MDI)	pbv	100	—
Cream Time	Sec	4 — 6	RWI — 01
Gel Time	Sec	8 — 11	RWI — 02
Free Rise Density	Kg/ m <sup>3</sup>	27 — 30	RWI — 03

## APPLICATION METHOD

In general, the following should be taken into consideration:

- The system must be applied using plural-component spray equipment.
- Component Temperature: 30°C — 50 °C depending on weather condition.
- Component Pressure: 80 Bars — 120 Bars.
- Ambient Temperature: +10 °C — +50 °C
- Substrate Temperature: +10 °C — +50 °C
- Relative Humidity: <50 %
- Wind speed: <20 km/h
- The substrate must be clean, free from oil, dust, and moisture.
- Pass thickness should not exceed 15 mm to maintain the designed density and dimensional stability.
- Thick passes cause a decrease in density and reduce dimensional stability of the foam.
- Very thin passes will increase the foam density and decrease product yield.
- There must be a time gap of 5 — 10 minutes before applying second layer.
- Longer time gap is necessary for thicknesses above 100 mm.
- Coverage and in-place density is dependent upon the temperature of the substrate, ambient air temperature, pass thickness, spray gun parameters etc.

## QUALITY & CARE

All products originating from **ANCHOR ALLIED FACTORY** LLC Sharjah, UAE. facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, and ISO 14001.

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## TYPICAL FOAM PROPERTIES

Typical Foam Properties	Unit	Value	Test Method
Applied Density	Kg/m <sup>3</sup>	42.0 — 48.0	ASTM D 1622
Compressive Strength at 10% Deformation	kPa	230 — 300	ASTM D 1621-16
Dimensional stability @ -20°C — +70°C	L %	2.5 — 3.5	BS EN 1604:2013
	W %	2.5 — 3.5	
	T %	0.4 — 0.6	
Tensile strength (Parallel to Rise)	kPa	200 — 250	BS EN 1604:2013
Thermal conductivity @ 25°C @ 35°C	W/m.K	≤ 0.0214 ≤ 0.0225	ASTM C 518
Water vapor transmission	Perms	0.30 — 0.50	ASTM E96
Water Absorption Vol (2H)	%	0.06 — 0.10	ASTM C 209-2015
Closed Cell Content	%	≥ 90	ASTM D 6226

All values given are subject to 5% — 10% tolerance.

## Shipping Limitations: None

### Note

The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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