

PL400H

Technical Information

Description

PolyLevel® 400 Hydrophobic (PL400H) is a two-component hydrophobic rigid polyurethane foam with nominal 4.0 pcf density designed to fill voids and lift concrete slabs.

Mix Ratio

TYPE	ISO	POLYOL
Component by Weight	100	90
Specific Gravity	1.23	1.11
Viscosity, cps @ 25°C (77°F)	200 ± 20	1100 ± 100

Typical Laboratory Hand-Mix Results

Components measured by weight and hand mixed at 25°C (77°F) on a high speed pneumatic mixer capable of 15,000 rpm @ 60 psi. Results should serve as a guideline only.

TEST	RESULT
Cream Time (sec)	25 ± 5
String Gel Time (sec)	50 ± 10
Tack-free Time (sec)	70 ± 15
Free Rise Density (pcf)	4.0 ± 0.2
Dimensional Stability, %Volume Change	
After 7 Days, 70°C (158°F), >90%RH	< -1%
Compressive Strength (psi)	80
Water Absorption (lbs./ft ²)	<0.02
Closed Cell Content	>90%

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Application Information

Equipment and Component Ratios:

PolyLevel® 400 Hydrophobic (PL400H) should be mixed by pour machines designed to mix urethane chemicals. Consult with your FSI Account Manager or Tech Support Representative for information regarding qualified metering equipment and the appropriate process parameters recommended. The PL400H R component is connected to the **resin/polyol** pumps with PolyLevel® A side (A side drums labeled **PLAD** / Totes labeled **PLAT**) being connected to the **isocyanate** pumps.

Storage and Clean-up:

Shelf life is 6 months, in original, unopened factory containers, under normal storage conditions of 55° to 85° F. Do not store in direct sunlight. Keep drums tightly closed when not in use. Cured product may be disposed of without restriction. Excess liquid 'A' and 'R' material should be mixed together and allowed to cure, then disposed of in the normal manner.

Safe Handling of Liquid Components:

Use caution in removing bungs from the container. Loosen the small bung first and let any built up gas escape before completely removing. Avoid breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention.

For further information, refer to “**Guidance for Working with MDI and Polymeric MDI: Things You Should Know**” from AX-205 <https://polyurethane.americanchemistry.com/Resources-and-Document-Library/11364.pdf> published by the Center for the Polyurethanes Industry (CPI), 700 2nd Street, NE, Washington, DC 20002

Caution:

Polyurethane products manufactured or produced from this liquid system may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend on a broad range of factors which are controlled and influenced by the manufacturing and production process, by the mode of application or installation and by the function and usage of the particular product. ***Any flammability rating contained in this literature is not intended to reflect hazards presented by this or any other material under actual fire conditions. These ratings are used solely to measure and describe the product's response to heat and flame under controlled laboratory conditions.*** Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures.

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