



JACKED 4.0 CONCRETE LIFTING FOAM

Two Component Polyurethane System

Description

JACKED 4.0 is a two-component methylene diisocyanate (MDI) based polyether system. The system is designed to yield a rigid material with balanced mechanical and dynamic properties and a cure profile suitable for compressing loose sand and raising concrete.

Component Properties

Polyol Component	
Product Reference	JACKED 4.0 Part B
Appearance	Amber liquid
Viscosity @ 25°C	1400–1800 mPa.s
Specific Gravity	1.08
Isocyanate Component	
Product Reference	JACKED 4.0 Part A
Appearance	Brown liquid
Viscosity @ 25°C	160–240 mPa.s
Specific Gravity	1.23
Mixing Ratios	
Polyol parts by weight	100
Isocyanate parts by weight	125
Cream time (handmix @ 25°C)	10 seconds
Gel time (handmix @ 25°C)	46 seconds
Cream time (spray @ 54°C)	< 10 seconds
Gel time (spray @ 54°C)	25 seconds

These are typical values and should not be construed as specifications.

Cured System - Typical Properties

Property	Test Method	Value	Units
Free Rise Density	ASTM D1622	3.8–4.2	Lbs/cu.ft.
Closed Cell Content	ASTM D2586	> 90	%
Water Absorption	ASTM D2842	3.6–4.2	%
Compression (8% overpack)	ASTM D1621-04a	40–60	
Compression (15% overpack)	ASTM D1621-04a	45–65	
Dimensional Stability, 28 days	ASTM D2126		
Humid Age, 158°F		0.2	% Volume Change
Dry Heat, 158°F		-0.5	% Volume Change
Cold Age, -20°F		0.0	% Volume Change

These are typical values and should not be construed as specifications.

Processing Details **Please Note: It is essential that the polyol component is thoroughly rolled / mixed before use.**

Strong turbulence and mixing with air should be kept to a minimum by adopting a careful mixing technique (e.g. drum/keg rolling) or using low air introducing mixers.

The following information is given as a guide to processing this product. It is recommended that optimum conditions for a specific application are determined experimentally. Our Technical Service Department can offer more detailed advice

Recommended Processing Temperatures

Polyol Component	25–30°C
Isocyanate Component	25–30°C
Application Temperature	10–40°C

Storage and Handling

Polyol Component

Store in tightly sealed containers at a temperature of 20 to 35°C. Avoid contact with moisture. Storage at low temperatures may result in freezing of the polyol component, should this occur it should be melted out by raising to the processing temperature and mixed thoroughly before use.

Shelf Life: 6 months

Isocyanate Component

Store in tightly sealed containers at a temperature of 20–30°C. Avoid contact with moisture. Storage below the recommended minimum temperature may result in freezing of the Isocyanate. If the Isocyanate does not fully melt out when raised to the processing temperature it may be necessary to re-melt at a temperature of 60–70°C.

Shelf Life: 6 months

Storage and Handling (Cont.)

More detailed information on the storage and handling of polyurethane components can be obtained by contacting SprayEz Technical Service Department.

Product Stewardship

SprayEz has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with SprayEz products — from the initial concept and research, to manufacture, use, sale, disposal, and recycling of each product.

Safety Considerations

Safety Data Sheets (SDS) are available from SprayEz. SDS are provided to help customers satisfy their own handling, safety and disposal needs, and those that may be required by locally applicable health and safety regulations. SDS sheets are updated regularly. Therefore, please request and review the most current SDS before handling or using any product. Copies of the SDS are available on request through the nearest SprayEZ Sales office or website.

Customer Notice

SprayEz strongly encourages its customers to review both their manufacturing processes and their applications of SprayEZ products from the standpoint of human health and environmental quality to help ensure that SprayEZ products are not used in ways for which they were not intended or tested. SprayEZ personnel are available to answer your questions and to provide reasonable technical support. SprayEZ product literature, including safety data sheets, should be consulted prior to use of SprayEZ products.

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