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POLY-JET® LOX

One-Component, Polysulfide, Gun-Grade, Low Modulus Joint Sealant

DESCRIPTION

POLY-JET LOX is a single-component, polysulfide, gun-grade, low modulus joint sealant. It cures on exposure to moisture to form an effective joint sealant. POLY-JET LOX is formulated to bond to damp or dry Portland cement concrete joints and cracks. It meets the fuel-immersed bond test requirement and heat blast resistance requirement of Federal Specification SS-S-200E, as well as the fuel-immersed bond test requirement of ASTM D 3569. POLY-JET LOX meets Air Force LOX impact-resistance requirements.

USES

POLY-JET LOX is specifically formulated to meet the requirements of the liquid oxygen test of the U.S. Air Force and is recommended for use in areas that are exposed to liquid oxygen. POLY-JET LOX passes the requirements of NASA-STD 6001 (Previously NHB 8060.1C). USAF requirement passes 20 impacts @ 7.2 ft./lb.

POLY-JET LOX is *not* compatible with asphalt and *cannot* be used in asphaltic concrete pavement or with asphalt-impregnated expansion joint fillers.

With its non-sag consistency, POLY-JET LOX can be used on vertical and overhead installations as is, or it can also be used horizontally if tooled immediately after installation. Primer is not required when POLY-JET LOX is applied in concrete joints.

COVERAGE... The chart below shows the approximate number of lineal feet that can be sealed with an 11 oz. cartridge. (1/2" x 1/2" joint size = 84 lineal feet per gallon of sealant).

DEPTH OF JOINT	WIDTH OF JOINT				
	1/4"	1/2"	5/8"	3/4"	1"
1/4"	30	20	12		
3/8"		13	8	6	
1/2"		7	5	4	3

APPLICATION

POLY-JET LOX may be applied by manual or air-operated caulking guns, putty knife or trowel. POLY-JET LOX adheres well to unprimed concrete, however P/G PRIMER is recommended for optimum adhesion.

Joint Preparation... Joints should be clean and free from dirt, oil, grease, wax, loose materials, etc. For joints between one-half and one inch wide, the sealant depth should be half of the joint width. For joints less than one-half inch, sealant depth should be one-quarter inch. Deep joints should be filled to the proper depth with KOOL-ROD™ backer rod. POLY-JET LOX is not recommended for joints over one inch in width because of the longer curing time required. POLY-JET LOX is a non-sag consistency and will require tooling for horizontal applications.

For completely clean installations, apply masking tape 2" wide to the surface adjoining the joint before POLY-JET LOX is applied; remove the tape before the sealant starts to set. POLY-JET LOX may be applied to slightly damp surfaces; this precludes the necessity to wait for early morning dew to completely evaporate. Under normal conditions (70° F and 50% relative humidity), a skin will form on the sealant in approximately 12 hours. To speed the formation of surface skin, the sealant in the joint may be tooled with water, which results in a skin forming in about a half hour.

The time required for complete curing of the sealant depends upon the size of the joint, temperature and humidity. High temperatures and high humidity promote rapid curing. Conversely, at low temperatures and low humidity, a longer time will be required to develop the optimum qualities of the sealant. In exposed applications with moderate temperature and humidity, a 1/4" thickness of sealant on a non-porous material will cure full-depth within two weeks. If the sealant is applied where moisture

CONTINUED ON REVERSE SIDE...

may penetrate from two or more directions, curing will proceed more rapidly.

SPECIFICATIONS

- TT-S-230, Type II, Non-Sag
- CRD-C-506, Type II, Class B
- NASA-STD 6001 (previously NHB 8060.1C)
- ASTM C 920, Type S, Grade NS, Class 25, Use NT, O

PRECAUTIONS

The odor emitted by POLY-JET LOX may be objectionable during the installation and curing phases of construction. Adequate ventilation of the work area may be required.

PACKAGING

5-Gallon (18.93 liter) pails
11 oz. cartridges (12 per case)

LIMITATIONS

POLY-JET LOX is a moisture-curing material. All opened containers must be used within 1-2 days. Unopened containers have a shelf life of 12 months. All surfaces to be sealed must be completely clean and free of any contamination, such as curing or waterproofing compounds, laitance, etc. POLY-JET LOX adheres tenaciously without use of a primer to concrete. POLY-JET LOX is not compatible with bituminous materials.

PHYSICAL PROPERTIES

	TEST METHOD	TYPICAL VALUES
Sealant Consistency:	ASTM C 639	Non-Sag
Viscosity, cps @ 77° F (25° C):	ASTM D 2393	1,000,000 – 1,300,000
Tack-Free time:	ASTM C 679	12 hours
Specific gravity:	ASTM D 1475	1.5 – 1.56
Durometer Shore A*:	ASTM D 2240	40 ± 5
Resiliency % **:	ASTM D 3583	80 min.
Modulus @ 150%, psi Die C*:	ASTM D 412	100 max.
Elongation %, Die C*	ASTM D 412	200 min.
Bond to Concrete @ -20° F (-29° C) 100% extension: (1/2" x 1/2" x 2" specimen)* Non-immersed Water-immersed Fuel-immersed	ASTM D 3583 ASTM D 3583 ASTM D 3583 Federal Spec. SS-S-200E	Pass 3 Cycles Pass 3 Cycles Pass 3 Cycles
Change in weight % **:	ASTM D 3583	1.5 max
Change in volume % **:	Federal Spec. SS-S-200E	2.5 max
Flame Resistance**: 2 min. @ 500° F (260° C)	Federal Spec. SS-S-200E	Pass
Tensile Adhesion, % **: 1/2" x 1/2" x 2" specimen	ASTM D 3583	200 min.
Artificial Weathering: LOX Impact Test @ Ambient Temp. 7.2 foot pounds	NHB 8060.1B Test 13	Pass
* Sample cured 21 days @ 73±5° F (25±2° C) and 50±5% relative humidity ** MEADOWS sample preparation		



LIMITED WARRANTY

“W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order.” Read complete warranty. Copy furnished upon request.

Disclaimer

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