LV

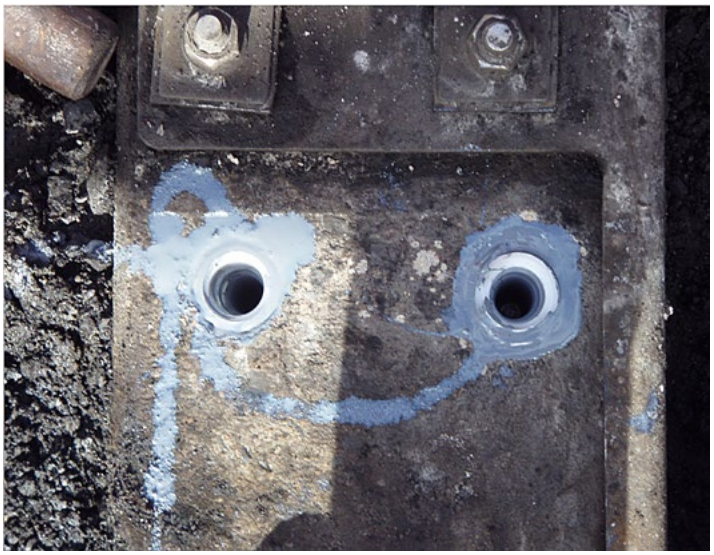
Low Viscosity High Modulus Urethane

Description

FastPatch® LV is designed to have an ultra-low viscosity and cures quickly at cold temperatures. **FastPatch® LV** is a tough, zero VOC, two-component urethane that sets quickly, allowing fast return to service. **FastPatch® LV** can be used in applications that require a fast-setting, high-modulus material.

Applications

- **Foundations** – concrete structures
- **High load areas** – footings, rail applications
- **Anchoring** – securely fasten bolts or rebar
- **Cracks & spalls** – fill narrow cracks
- **Low temperatures** – freezer repairs



Features/Benefits

- **High compression strength** – supports heavy loads
- **Easy-to-use** – meter application possible
- **Fast curing** – quick return to service
- **Excellent adhesion** – bonds strongly to concrete
- **Low viscosity** – flows into place easily
- **Cures at low temperatures** – year-round use
- **Made in America**

Typical Properties

Description	Result	Method
VOC	Virtually 0% lbs/gal (g/L)	ATSM D2369
Viscosity	120 cPs (.12 Pa-s)	ATSM D4878, mixed
Service temperature	-30 to 170° F (-34 to 77° C)	-
Potlife	1-2 minutes at 70° F (21° C)	-
Tack-free time	3-4 minutes at 70° F (21° C)	-
Hardness	78 SHore D	ATSM D2240
Anchoring strength, ½" threaded rod, 6" depth	10,101* psi (70 mPa)	ATSM E488
Anchoring strength, #4 rebar, 6" depth	7,800* psi (54 mPa)	ATSM E488

*Independently tested using specific parameters, contact manufacturer for more details. Predominate failure mode was typically a transverse crack through the block with isolated occurrences of conical blowout or multiple cracks. .

Processing Parameters

Mix ratio by volume	1:1 resin:iso
Application temperature*	10 to 110° F (-12 to 43° C)
Recommended static mixer (mix tube)	0.25 inch x 32 element

*Applications below freezing require specific processing. Contact WVCO for more details.

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Cure time (Resin conditioned at 70° F / 21° C)		
Temperature, 50% RH	**Gel time**	**Tack-free time**
0°F (-18°C)	5-10 minutes	20-30 minutes
40° F (4° C)	3-5 minutes	7-10 minutes
70° F (21° C)	2-3 minutes	3-4 minutes
107° F (42° C)	1-2 minutes	2-3 minutes

Compression, 2" cubes (ASTM C579)		
Time	**Max load**	**Comp strength**
6 hours	23,410 lbf (104.1 kN)	5,853 psi (40.4 MPa)
24 hours	26,010 lbf (115.7 kN)	6,503 psi (44.8 MPa)
168 hours	23,410 lbf (104.1 kN)	6,508 psi (44.9 MPa)

Packaging

600 mL cartridge
50-gallon drum (189 L)
5-gallon pail (19 L)

Colors

Gray

Shelf Life

1 years when properly stored

Storage

Store and ship this product in clean, dry, low-humidity, and shaded or covered environments between 60 and 90°F (15-32°C)

Health & Safety

Before handling, you should become familiar with Safety Data Sheet regarding the risks and safe use of this product. To obtain an SDS please email FastPatch@wilvaco.com

Disclaimer of Warranty

Test results are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, no guarantee, warranty, or representation is made, intended, or implied as to the correctness or sufficiency of any information, or as to the suitability of any chemical compounds for any particular use, or that any chemical compounds or use thereof are not subject to a claim by a third party for infringement of any patent or other intellectual property right. Each user should conduct a sufficient investigation to establish the suitability of any product for its intended use. Proper application is the responsibility of the user. As with any product, the use of this product in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability. Testing is the requirement of both engineers and contractors alike. WVCO does not warrant the application under any or all circumstances.

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