

HYDRO ACTIVE[®] FLEX SLV

Description

Hydro Active[®] Flex SLV is one of the unique Hydro Active[®] Grouts used for grouting of joints/cracks and to stop leaking or running water in concrete, brickwork or masonry substrates and structures. **Flex SLV** is a very low viscosity resin grout that expands upon contact with water and quickly cures to form a tough, flexible, **hydrophobic**, **MDI**, closed-cell polyurethane foam that is essentially unaffected by corrosive environments. **Flex SLV** forms a flexible gasket in the joint or crack into which it has been injected to prevent further water infiltration. **Flex SLV** penetrates fast, replacing water, and can be applied without the need to stop water seepage prior to injection. Always use Flex Cat!

Physical Properties		
Uncured:		
Solids	100%	ASTM D-2369 <small>Method B</small>
Viscosity	150-250 cps @ 77► F	ASTM D-2196 <small>Method A</small>
Color	Pale yellow	
Density	9.0 – 9.15 lbs/gal	ASTM D-3574
Flashpoint	>130°C COC Method	ASTM D-92
Corrosiveness	Non-corrosive	
Influence of pH	No influence between 2 - 11	
Flex Cat		
Appearance	Gray transparent liquid	
Viscosity	5-16 cps @ 77► F	ASTM D-2196 <small>Method A</small>
Density	8.50 – 8.60 lbs/gal	ASTM D-3574
Flash point	>200► F COC Method	ASTM D-92
Influence of pH	No Influence when pH < 7	
Cured:		
Density	2.20 – 2.50 pcf	ASTM D3574
Tensile strength	≥25 psi	ASTM D3574
Elongation	100%	ASTM D3574
Shrinkage	Less than 4% (at full activation)	ASTM D1042
Influence of pH	No influence between 2-11	
Toxicity	Non-toxic	

Reactivity Times Using Flex Cat		
* at 50° F	% Flex Cat	Geltime in min-sec.
	1%	7' 50"
	3%	3' 50"
* at 68° F	% Flex Cat	Geltime in min-sec.
	1%	6' 00"
	3%	3' 00"
* at 86° F	%Flex Cat	Geltime in min-sec.
	1%	5' 50"
	3%	2' 30"
Example - 1% = 1.3 oz. of Flex Cat to 1 gallon of Flex SLV		
Flex SLV must be accelerated with a minimum of ½ to 1 % per gallon of Flex Cat.		
<u>Note: Flex Cat must be agitated by shaking the can prior to adding to resin.</u>		

Key Advantages

- Non-flammable
- Solvent free
- Durable & flexible
- Fast curing-rapid controllable cure time
- Will react with sea-water
- Excellent bond strength
- Free expansion up to 25X
- Super low viscosity & very penetrative
- Chemically resistant
- Resistant to freeze/thaw, wet/dry cycles
- Forms a chemical bond
- Forms a mechanical anchor into pores of the material into which it is injected
- Through expansion - forms a compression seal within the crack, fracture or hole.

Availability

Hydro Active® Flex SLV: 5 gal metal pail, close head with flexspout, filled and sealed under dry nitrogen.

APPLICATION GUIDE:

Basic Steps for Crack Repair

- Clean area to be injected
- Drill holes for injection packers at angle to intersect crack
- Install and tighten packers
- Flush crack with water
- Inject HA Grout, beginning at the bottom
- Remove injection packers and patch holes
- Remove excess surface grout

Seal large cracks to prevent excessive loss of HA grout. Surface may be sealed with Aquaplug hydraulic cement, Oakum rope or lead wool, etc; the crack may then be injected/grouted in the normal manner.

CAUTION – pH NOTICE
Water used to activate Hydro Active Grouts must be in a range of pH 3 –10 for proper cross-linking of the materials and optimum foam quality

Low Temperature Conditions

Low temperatures will significantly affect viscosity. To minimize this effect, store product at normal room temperature for a minimum period of 24 hours prior to use. If site temperatures are extremely low, heat bands may be used on the pails or the pails may be immersed in heated water baths before and during use to maintain the products temperature, lower the viscosity and improve penetration; only the lower 2/3 of the pails or drum should be immersed. Avoid splashing water into open containers, as the material is water activated. DO NOT EXCEED 80°F WHEN WARMING.

Storage:

Store sealed containers in a dry, well ventilated area. The product may be resealed, but it is recommended to use material completely once the container is opened. Avoid moisture as the product is moisture sensitive.

Health and Safety:

Hydro Active® Flex SLV is a nonflammable solution of polyurethane prepolymer which may cause severe irritation if not handled properly. Operatives are to wear protective clothing, eye protection and gloves. Extra artificial ventilation may be required if natural ventilation is insufficient. If eye contact occurs, flush eyes with water and seek medical attention. If skin contact occurs, wash immediately with soap and water. If taken internally, rinse mouth, have victim drink plenty of water and transfer immediately to a medical facility.

Disposal:

Do not dispose into sewerage through normal waste methods. Ensure that the product has been completely reacted with water for 48 hours, then dispose under local waste treatment regulations.

Further Information:

For additional information on any of the Hydro Active® Grouts, please contact the technical department of De Neef Construction Chemicals, Inc. or your local representative.

DeNeef Construction Chemicals Inc. products are warranted under the following policy:

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Seller's and manufacturers sole responsibility shall be to replace that portion of the product of this manufacturer that proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.

"This polyurethane grout is in accordance to CFR 177.1680"

de neef Construction Chemicals, Inc.

PO Box 1219, 18314 Mathis Road, Waller, TX 77484-1219 • 936-372-9185 • 936-372-9897 Fax