

TECHNICAL INFORMATION

URETHANES

PRODUCT NAME

HYDRO ACTIVE[®] Flex LV

Hydrophobic Polyurethane Grout

MANUFACTURER

De Neef Construction Chemicals, Inc.
5610 Brystone Drive
Houston, TX 77041
1(800) 732-0166

PRODUCT DESCRIPTION

HYDRO ACTIVE[®] Flex LV is a hydrophobic polyurethane that, when used alone or with HYDRO ACTIVE[®] Flex Cat, is designed to form a flexible gasket or plug in joints and cracks in concrete. In its uncured form, HYDRO ACTIVE[®] Flex LV is a pale yellow nonflammable liquid. When it comes into contact with water, the grout expands and depending on temperature and amount of accelerator (HYDRO ACTIVE[®] Flex Cat) used quickly cures to a tough flexible, closed-cell foam that is essentially unaffected by corrosive environments.

APPROPRIATE APPLICATIONS

- Sealing leaks thru concrete cracks and joints
- Injection through grout tubes to form a flexible waterstop in concrete joints.

ADVANTAGES

- Contains no volatile solvents
- Free Foam Expansion 2-5 times its liquid volume depending upon the amount of HYDRO ACTIVE[®] Flex Cat used
- Low viscosity permits injection into narrow to hair line cracks
- Excellent elongation creates tight seal in moving cracks.

TYPICAL PROPERTIES

Uncured		
Solids	100%	ASTM D 2369 B
Viscosity at 77°F	650 cps ± 200	ASTM D 2196 A
Color	Pale yellow	
Density	8.70 - 9.17 lbs/gal	ASTM D 3574
Flashpoint COC Method	> 270°F	ASTM D 93
Corrosiveness	Non-corrosive	
Flex Cat		
Appearance	Transparent Liquid	
Viscosity at 77°F	5-16 cps	ASTM D 2196
Flashpoint COC Method	338°F	ASTM D 93
Cured		
Density	8.70 - 9.17 lbs/gal	ASTM D 3574
Tensile Strength	150 psi	ASTM D 190 63
Elongation	250%	
Shrinkage	Less than 4%	
Toxicity	Non-toxic	
Absorbtion (6 months immersion in water)	10%	

The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above

Reactivity

	%HYDRO ACTIVE [®] Flex Cat	Geltime in min-sec
* at 50°F	1%	7' 50"
	3%	3' 50"
* at 68°F	1%	6' 00"
	3%	3' 00"
* at 86°F	1%	5' 50"
	3%	2' 30"

Example - 1% Flex Cat = 1.3 oz. per gallon of Flex LV
Note: Flex Cat must be agitated by shaking the can prior to adding to resin

PACKAGING

HYDRO ACTIVE® Flex LV: 5 gal metal pail, closed head with flex spout, filled and sealed under dry nitrogen.

HYDRO ACTIVE® Flex Cat: 25 oz. bottle.

LIMITATIONS

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

CAUTION – pH NOTICE. Water used to activate HYDRO ACTIVE Grouts must be in a range of pH 3 –10 for optimum foam quality.

SURFACE PREPARATION

Refer to De Neef Surface Preparation Guidelines for more details.

INSTALLATION PROCEDURES

Prior to installation the material should be agitated by vigorously shaking the 5-gallon pail or by mixing with a jiffy mixer or bung mixer. During injection the grout will follow the path of least resistance. When the material has stopped migrating, it will continue to expand against the confines of the crack/joint and compress within itself, forming a very dense, closed cell material stopping the leak. Prior to using **HYDRO ACTIVE® Flex Cat**, the can should be shaken vigorously as the contents may settle during storage. The grout should never be used with more **HYDRO ACTIVE® Flex Cat** than the amount recommended on this data sheet. Excess acceleration will cause a vigorous expansion that is prone to shrinkage. Pour the desired amount of **HYDRO ACTIVE® Flex LV** into a clean pail. Measure the appropriate amount of **HYDRO ACTIVE® Flex Cat** and pour it into the **HYDRO ACTIVE® Flex LV** and stir until adequately mixed. For application procedures in extreme temperatures and specific environments or equipment recommendations call the De Neef Technical Service Department

STORAGE & HANDLING

Store in dry area using original Resealable Containers.

Warning! If **HYDRO ACTIVE® Flex Cat** is allowed to freeze it will lower performance.

PRECAUTIONS

Always use protective clothing, gloves and goggles consistent with OSHA regulations during use. Avoid eye and skin contact. Do not ingest. Refer to Material Safety Data Sheet for detailed safety precautions.

SAFETY INFORMATION

In the event of an EMERGENCY call:
CHEM-TREC 800-424-9300.

WARRANTY INFORMATION

De Neef Construction Chemicals, Inc. products are warranted under the policy set forth under the WARRANTY section of the De Neef Construction Chemicals Inc., product catalog. Warranty information can also be obtained via the De Neef Construction Chemicals Inc. website at www.deneef.com, or by calling 713-896-0123 or toll free at 1-800-732-0166.

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DRINKING WATER SYSTEM COMPONENTS
ANSI/NSF 61
3N76

“HYDRO ACTIVE® FLEX LV GROUT”
MAXIMUM SURFACE AREA TO VOLUME RATIO
2CM²/L AT 23°C
ONLY WHEN MIXED WITH
“HYDRO ACTIVE® FLEX CAT” ACTIVATOR (1-3%)

