

# TECHNICAL INFORMATION

## URETHANES

### PRODUCT NAME

## HYDRO ACTIVE<sup>®</sup> 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<sup>®</sup> Flex LV is a hydrophobic polyurethane that, when used alone or with HYDRO ACTIVE<sup>®</sup> Flex Cat, is designed to form a flexible gasket or plug in joints and cracks in concrete. When it comes into contact with water, the grout expands and depending on temperature and amount of accelerator (HYDRO ACTIVE<sup>®</sup> 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 subject to movement
- Injection through grout tubes to form a flexible waterstop in concrete joints.
- Saturating oakum rope or backer rod to seal joints by the gasket method.

### ADVANTAGES

- NSF 61 Potable water approved
- Contains no volatile solvents
- Free Foam Expansion up to 10 times its liquid volume
- Single component
- 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	> 270°F	ASTM D 93
Corrosiveness	Non-corrosive	

#### Flex Cat

Appearance	Transparent Liquid	
Viscosity at 77°F	5-16 cps	ASTM D 2196
Flashpoint	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	
Absorbition (6 mo. 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 may result.

### Reactivity

	%HYDRO ACTIVE <sup>®</sup> 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 Grout

**Note: Flex Cat must be agitated by shaking the can prior to adding to resin**

## PACKAGING

### HYDRO ACTIVE® Flex LV:

- 55 gallon metal drum sealed under dry nitrogen.
- 5 gal metal pail sealed under dry nitrogen.

### HYDRO ACTIVE® Flex Cat Accelerator:

- 25 oz. cans.

## LIMITATIONS

Low temperatures will significantly affect viscosity. If site temperatures are extremely low, heat bands or heated water baths may be used on the pails before and during installation to maintain the product's temperature. Avoid splashing water into open containers, as the material is water activated. Avoid exceeding 90°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, both the grout and accelerator must be agitated separately before combining by vigorously shaking the containers or by mixing with a jiffy mixer. 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. During injection the grout will follow the path of least resistance. When the material has stopped penetrating 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.

For application procedures in extreme temperatures and specific environments or equipment recommendations call the DeNeef Technical Service Department.

## STORAGE & HANDLING

Store in dry area in 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](http://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  
2 CM²/L AT 23°C  
ONLY WHEN MIXED WITH  
“HYDRO ACTIVE® FLEX CAT” ACTIVATOR (1-3%)

