

TECHNICAL INFORMATION

URETHANES

PRODUCT NAME

HYDRO ACTIVE® Flex SLV

Hydrophobic Polyurethane Grout

MANUFACTURER

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

PRODUCT DESCRIPTION

HYDRO ACTIVE® Flex SLV is a very low viscosity hydrophobic polyurethane that, when used with HYDRO ACTIVE® Flex Cat, is designed to form a flexible gasket or plug in very tight joints and hairline cracks. In its uncured form, HYDRO ACTIVE® Flex SLV is a pale yellow, nonflammable liquid. When in contact with water the grout expands and depending on temperature and the amount of accelerator (HYDRO ACTIVE® Flex Cat) used quickly cures to a tough, flexible, closed cell polyurethane foam that is essentially unaffected by corrosive environments.

APPROPRIATE APPLICATIONS

- Sealing leaks thru very tight joints and hairline cracks in concrete and masonry.

ADVANTAGES

- NSF 61 Potable water approved
- Contains no volatile solvents
- Single component
- High elongation creates tight seal in moving cracks
- Controllable cure time
- Free foam expansion up to 15 times its liquid volume
- Very low viscosity permits injection into hairline cracks
- Resistant to most corrosive environments

TYPICAL PROPERTIES

Uncured		
Solids	100%	ASTM D 2369 B
Viscosity at 77°F	150-250 cps	ASTM D 2196 A
Color	Pale yellow	
Density	9.0 – 9.15 lbs/gal	ASTM D 3574
Flashpoint	>130°C	ASTM D 92
Corrosiveness	Non-corrosive	
Influence of pH	No influence between 2-11	
Flex Cat		
Appearance	Transparent Liquid	
Viscosity	5-16 cps at 77°F	ASTM D 2196
Density	8.50 – 8.60 lbs/gal	ASTM D 3574
Flashpoint	> 200° F	ASTM D 92
Influence of pH	No influence when pH < 7	
Cured		
Density	8.76 – 9.20 lbs/gal	ASTM D 3574
Tensile Strength	174 psi	ASTM D 3574
Elongation	250%	ASTM D 3574
Shrinkage	Less than 4%	ASTM D 1042
Influence of pH	No influence between 2-11	
Toxicity	Non-toxic	

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® 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 SLV:

- 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 SLV into a clean pail. Measure the appropriate amount of HYDRO ACTIVE® Flex Cat and pour it into the HYDRO ACTIVE® Flex SLV 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. Ventilation is recommended. 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, 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 SLV GROUT”
MAXIMUM SURFACE AREA TO VOLUME RATIO
0.25 CM²/L AT 23°C
ONLY WHEN MIXED WITH
“HYDRO ACTIVE® FLEX CAT” ACTIVATOR (1-3%)

