

# TECHNICAL INFORMATION

## URETHANES

### PRODUCT NAME

## HYDRO ACTIVE® Safefoam

Hydrophilic polyurethane resin

### MANUFACTURER

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

### PRODUCT DESCRIPTION

**HYDRO ACTIVE® Safefoam** is a hydrophilic, MDI based polyurethane designed to form a flexible gasket or plug in joints or cracks in concrete. **HYDRO ACTIVE® Safefoam** is a pale yellow, non-flammable liquid. When it comes into contact with water, it expands quickly and, depending on temperature, quickly cures to a tough, flexible, closed-cell foam that is essentially unaffected by mildly corrosive environments.

### APPROPRIATE APPLICATIONS

- Sealing leaks thru concrete cracks and joints.
- Saturating oakum rope to seal joints by the gasket method.

### ADVANTAGES

- Single component
- Non-TDI formulation
- Non flammable
- Viscosity permits injection into narrow cracks.
- Free foam expansion 15 times its liquid volume at 5:1 water
- 200% elongation
- Environmentally friendly

### PACKAGING

- 55-gallon metal drum sealed under dry nitrogen
- 5-gallon metal pail sealed under dry nitrogen.
- 10.5 oz. cartridges

### TYPICAL PROPERTIES

#### Uncured

Solids	85%	ASTM D 2369 B
Viscosity (77°F)	350-550 cps	ASTM D 2196 A
Color	Pale yellow	
Density	1.03 - 1.05	ASTM D 3574- 95
Flashpoint	200°F	ASTM D 93
Corrosiveness	Non-corrosive	
Reaction time 1:1 with water	40 sec.	

#### Cured

Tensile Strength	380 psi	ASTM D 3574- 95
Elongation	200%	ASTM D 3574- 95
Bonding Strength	350 psi	
Shrinkage	<10%	ASTM D 1042
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.

### LIMITATIONS

Low temperatures will significantly affect viscosity. If site temperatures are extremely low, heat bands or heated water baths may be used before and during installation to maintain the products 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 the pH range of 3 –10 for optimum foam quality.

## **SURFACE PREPARATION**

Refer to De Neef Surface Preparation Guidelines for more details.

## **INSTALLATION PROCEDURES**

Prior to installation, **HYDRO ACTIVE® Safeoam** should be agitated by vigorously shaking 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. For application procedures in extreme temperatures or specific environments or equipment recommendations call the De Neef Technical Service Department.

## **STORAGE & HANDLING**

Store in dry area using original resealable containers.

## **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), by calling 713-896-0123 or toll free at 1-800-732-0166.

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