

HYDRO ACTIVE® MULTIGEL NF (Nonflammable)

Description

Multigel NF is a nonflammable, V.O.C. compliant chemical grouting compound which, when mixed with water, forms a water impermeable gel mass. **Multigel NF** is a single component multi-ratio, low viscosity, high solids **hydrophilic** polyurethane gel used in sanitary sewer joint sealing, manhole water control and storm sewer sealing. It is environmentally safe and inert after cure. When mixed with variable amounts of water, Multigel NF will penetrate any soils that water may pass through. After curing, it forms both a flexible gasket and an effective water barrier. Accelerators to control the reaction time are available; as well as a Reinforcing Agent to enhance the strength of the gel mass.

Physical Properties - Multigel NF

Uncured:

Solids	78%	ASTM D-2369-B
Viscosity	200-300 cps at 77°F	ASTM D-2196-A
Color	Yellow	
Flashpoint	225°F	ASTM D-93

Cured:

- Wet Tensile Strength (Mixing ratio 6:1) With 10% Reinforcing Agent: 22 - 34 psi ASTM D-1564 With 20% Reinforcing Agent: 28 - 49 psi ASTM D-1564
- Gel time: 50 seconds at 70° F (pH=7)
- Shrinkage: No shrinkage was observed after one week at 70°F and relative humidity of 100%.
- Influence of pH : No gelification in highly alkaline (pH>10) or strongly acidic (pH<3) media. The geltime increases with decreasing pH values.
- Compressive Strength in Soil: Mix ratio: 1:1 375 psi 6:1 202 psi
- Cured materials: Resistant against normal sewer effluents.



ANSI / NSF 61
 DRINKING WATER SYSTEM COMPONENTS
 (3N76)
 "HYDRO ACTIVE® SEALFOAM NF OR
 HYDRO ACTIVE® MULTIGEL NF"
 MAXIMUM SURFACE AREA TO VOLUME RATIO
 6 CM² / L @ 23°C

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

ADDITIONAL MATERIALS THAT CAN BE USED WITH MULTIGEL NF, DEPENDING ON JOBSITE CONDITIONS

Flexgel Cat Grout side:

Appearance	Pale yellow	
Viscosity	6 -15 cps at 77°F	ASTM D-2196-A
Flashpoint	138°F	ASTM D-93

Flexgel Cat Water side:

Appearance	Pale white	
Viscosity	5 -15 cps at 70°F	ASTM D-2196-A
Flashpoint	350°F	ASTM D-93

Reinforcing Agent:

Appearance	Milky white (latex based)	
Flashpoint	>212°F	ASTM D-93
Viscosity	20-50 cps at 70°F	ASTM D-2196-A
CAUTION:	ADD AT WATERSIDE!	

HYDRO ACTIVE® MULTIGEL NF

Applications

- Stop infiltration into manholes (brick or mortar).
- Sealing of pipe joints through commercial packer equipment for repairing leakages in sanitary and storm sewer pipes.
- Stabilization of soil.

Mix Ratio

Multigel NF is cured by the action of water. However, larger quantities of water can be absorbed in the reaction mass, and the properties of the cured product are therefore, determined by the mix ratio. Compounding Multigel NF and water at 1:1 volume basis yields a flexible foam with good tear resistance. In the range of 2:1 to 8:1, a strong gel is obtained.

FOAM	STRONG GEL (recommended range)				FLACCID GEL	
1:1	2:1	4:1	6:1	8:1	10:1	12:1

Storage and Handling

Multigel NF is sensitive to moisture and moderately sensitive to high storage temperatures, therefore, we recommend storage at 41°F - 60° F under dry conditions. Storage temperatures should not exceed 80° F. Once a pail has been opened, the useful life of the material is greatly reduced and should be used as quickly as possible.

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.

Multigel NF can be pumped using single or plural component injection pumps.

Due to the high risk of moisture contamination, **Multigel NF** should be removed from all application equipment immediately after use with **De Neef Washing Agent**.

Product Safety

Multigel NF should be used only in well ventilated areas.

Avoid eye and repeated skin contact.

Availability

Multigel NF: 5 gal metal pail, closed head with flexspout, filled and sealed under dry nitrogen.

Flexgel Cat: 25 oz. bottle.

Flexgel Cat W: 64 oz. bottle.

Reinforcing Agent: 1 gal bottle or 5 gal pail

Product Warranty

De Neef 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 this product for the intended use and user assumes all risk and liability resulting from his or her use of the product. All information and statements are intended for persons having the required skill and know-how and do not relieve the user from verifying the suitability of the information and statements given for a specific purpose prior to use. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use this 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

06/04/03

EMERGENCY RESPONSE – CALL CHEMTREC 800/424-9300

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