

HA Sealfoam NF

Flexible, hydrophilic, low viscosity, polyurethane injection grout for sealing moving non-structural cracks.



• **field of application**

- For sealing dry, moving, non-structural cracks as a 2-component system with a 1/1 ratio with water.
- For sealing moist, moving non-structural cracks as a 1-component system.
- For sealing water leaks between the joints of concrete tunnel segments
- For curtain injections behind tunnel segments
- For sealing moving, leaking cracks.
- Filling of honeycombs below ground water level.
- For waterproofing man and non-man accessible sewer pipes.
- For expansion joints or annular joints in combination with oil-free dry oakum or open cell foams.

• **advantages**

- Solvent free
- Non-flammable
- Very high bond and tensile strength
- Withstands thermal movement, wet-dry cycles, freeze-thaw cycles and crack movement without degradation.
- Good all-round chemical resistance (*)
- Approved for contact with potable water according to WRC BS 6920:1998

• **description**

HA Sealfoam NF is a single component, low viscosity, hydrophilic, polyurethane resin. After curing HA Sealfoam NF forms an inert, flexible, close cell foam with very good tensile and adhesion properties. HA Sealfoam NF can be used as a 2-component system with a 1:1 ratio water for injection into dry cracks.

• **application**

HA Sealfoam NF can be used as a 1-component system for injection into moist conditions or as a 2-component system with a 1/1 ratio with water for injection in dry conditions.

Before commencing the injection, consult the Technical Data Sheets and MSDS in order to be familiar with the materials at hand.

1. Injection.

- Drill holes of the correct diameter for the selected packer. Drill at an angle of 45°

Preferably the holes should be drilled staggered around the crack to insure good coverage of the crack in case it is not perpendicular to the concrete surface. The depth of the bore should be approximately half of the thickness of the concrete. As a rule of thumb the distance of the drill point from the crack is 1/2 the wall thickness

Distance between holes can vary by 15 to 90 cm, depending on the actual situation.

- Insert the correctly sized packer into the hole up to 2/3 of its length.

Tighten with a wrench or spanner by turning clockwise until sufficient tension has been reached to keep the packer in place during injection.

- Start the injection at the first packer. Start injecting at the lowest pressure setting of the pump. Slowly increase the pressure until the resin begins to flow. Pressures may vary from 14s bar to 200 bars depending on the size of the crack, the thickness of the concrete and the general condition of the concrete. A little leakage of resin through the concrete or crack is useful in showing the extent of resin travel. Large leaks should be plugged with rags, wait for the resin to set, then inject again.
- Stop pumping when the pure resin reaches the next packer.
- Move to the next packer and repeat the procedure.
- After injecting through a few of the packers, go back to the first one and re-inject with resin.
- Let the resin cure thoroughly before removing packers. The resulting holes can be filled with hydraulic cement.
- When the injection is finished, clean all tools and equipment, which have been in contact with the resin with HA Washing Agent Eco. This should be done immediately. Do not use solvents or other cleaning products since they give less positive results and can create hazardous situations.
- Products should be disposed off according to local legislation. Refer to Material Safety Data Sheet for general recommendations.
- In case of spills and accidents, refer to the Material Safety Data Sheet of the products or when in doubt contact the De Neef Division responsible for your territory.
- Always wear appropriate protective gear for the job at hand according to local guidelines and regulations. We recommend that gloves and protective goggles should be worn when handling chemical products. See MSDS for further recommendations.

• **technical data/properties**

Property	Value	Norm
HA Sealfoam NF uncured		
Solids	100 %	ASTM D 2939
Viscosity @ 25 °C	650 - 950 mPas	ASTM D-1638
Density @ 20 °C	1,03 - 1,05 kg / dm ³	ASTM D-1638
Flash point	107 °C	ASTM D-93
HA Sealfoam NF cured		
Tensile strength	> 2 N / mm ²	ASTM D3574-86
Elongation	400 %	ASTM D3574-86
Bond strength	> 1,5 N / mm ²	
Curing time 1:1 with water*	20 sec.	Test ASTM

Remarks.

It is advisable to test mechanical properties at each time of actual injection since these may vary according to conditions.

All data mentioned on this technical data sheet are product descriptions. They are the result of general experience and experiments and don't take any specific application into account. No further demands may be derived from these data. The manufacturer has the privilege to implement technical changes, which result from new research concerning the material composition and form. To verify that you are holding the latest version of this Technical Data Sheet, please visit www.deneef.net.

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