

HA Safefoam

Environmentally safe, low viscosity hydrophilic polyurethane injection resin designed for grouting joints or repairing leaks in concrete structures.



• **field of application**

- Designed for grouting joints or repairing leaks in concrete structures.
- Sewer joint repair.
- Curtain injections behind tunnel segments.
- Waterproofing moving and non-moving joints.

• **advantages**

- HA Safefoam is a hydrophilic, MDI based resin which is both environmentally safe and user friendly.
- High expansion rates.
- Can be used as a 1- or 2-component system.
- Controllable reaction times: by using catalyst, curing times can be reduced.

• **description**

HA Safefoam is a low viscosity polyurethane injection resin designed for grouting joints or repairing leaks in concrete structures. When coming into contact with water HA Safefoam expands quickly and cures into a flexible, closed-cell foam that is extremely tough and capable of withstanding extreme thermal cycles of crack movement.

• **application**

As a 1-component product:

In the case of smaller leaks, when a polymerisation time of 2 minutes is sufficient. Use HA Safefoam without HA Safe Cat.

As a 2-component product:

- In the case of very high underflow, in sewer repair or at temperatures below 10°C, and hence when extremely short reaction times are requested.
- Mix HA Safe Cat with HA Safefoam resin in the required quantities. (see tech. data below). Shake HA Safe Cat well before use.
- Use 2-piston pump at a ratio of 5 volumes HA Safefoam to 1 volume of water. HA Safefoam can be pumped using hand or air operated piston pumps.

Note:

All pumps, hoses and equipment should be cleaned with De Neef Washing Agent Eco immediately after use.

• **technical data/properties**

Reactivity (5:1 ratio resin/water with different %'s of HA Safe Cat.)

HA Safe Cat ^(*)	Approx. start	Approx. end	Expansion
0%	20"	7'00"	20 x
1,5%	20"	4'00"	20 x
5%	15"	2'45"	20 x
10%	15"	2'05"	20 x
20%	10"	1'15"	20 x

^(*) With respect to HA Safeoam resin

• **appearance**

HA Safeoam : Pale yellow liquid.
HA Safe Cat : Transparent liquid.

• **consumption**

Has to be estimated by the engineer or operator and is depending on width and depth of the joint/crack, which needs to be injected and on the amount of water seepage.

• **packaging**

HA Safeoam : 200 kg - 25 kg metal drum.
HA Safe Cat : 2,5 l plastic jerry-can - 1 l plastic bottle.

1 pallet HA Safeoam =

- 24 x 25 kg drums.
- 4 x 200 kg drums.

1 box HA Safe Cat =

- 5 x 2,5 l jerry-cans (2,5 l = 2,55 kg).
- 4 x 1 l bottles (1 l = 1,02 kg).

1 pallet HA Safe Cat =

- 40 boxes (2,5 l).
- 90 boxes (1 l).

• **storage**

HA Safeoam is sensitive to moisture and should be stored in original containers in a dry area. Once a pail has been opened, the useful life of the material is greatly reduced and should be used as quickly as possible. Shelf life: 2 years.

• **accessories**

To be ordered separately:

- IP 1C-100-H hand pump.
- IP 1C-210-E electric airless diaphragm pump.
- Packers and connectors. (Please consult the relevant data sheet).

• **health & safety**

HA Safeoam is classified as harmful. HA Safe Cat is classified as irritant. Always wear protective clothing and gloves. For full information, consult the relevant Material Safety Data Sheet.