KISFOAM S
Hydrophobic Polyurethane Injection Grout

DESCRIPTION

KISFOAM S is a high-performing injection grout based on polyurethane technology. It is used together with KISCAT at varying dosages to suit different reaction timing. The end-product is a semi-flexible foam most effective in sealing water seepages to water ingression in large cracks. An instantaneous effect of cutting off water seepages can be expected due to the fast reaction of this KST technology.

RECOMMENDED USE

- Sealing construction structures (dams, subway, tunnels, water retention tanks etc.) with high flow rate and/or high-pressure water leakages.
- Blocking water leaks in diaphragm walls.
- Providing protection against water as a screen injection behind porous structures

ADVANTAGES

- Ideal consistency for use with Kensetsu and other approved pumping systems.
- Able to withstand high hydrostatic pressure.
- Does not contain harmful solvent
- Semi-flexible foam designed to cater for expansion/shrinkage movement in voids/cracks
- Reacts even with seawater or contaminated water
- Flexibility in achieving different reaction time with KISCAT catalyst (1-10%)

PACKAGING

KISFOAM S is supplied in 20 kg metal pail

KISCAT is supplied in 2 kg plastic bottle

APPLICATION GUIDELINES

a) Surface Preparation

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. Typical recommendation is to observe distance of the drill point from the crack to be half of the wall thickness.

Holes should be drilled at distances of 15 to 90 cm, depending on the actual site situation.

Insert the appropriate packer of correct size and material into the drilled hole. Fasten with a wrench or spanner to keep the packer in place during injection.

DATA SPECIFICATION SHEET

b) Application

Flush the crack with water before injecting with KISFOAM S to flush out debris and loose materials. Another advantage of this procedure is to introduce water into the crack that will also aid activation of the resin later.

Stir well the mixture of KISFOAM S and KISCAT with a low speed mixer for at least 20 seconds.

Measure and dose KISCAT at dosages 1-10% for optimal reaction time on site.

All equipment used, such as Kensetsu pumping system should be cleaned with KISCLEANER ULTRA or suitable solvent for best maintenance results.

LIMITATION

KISFOAM must not be applied as follows: -

- In working condition below 10°C.
- To be left exposed externally or exposed to regular foot traffic.
- As sealant for expansion, control or structural joints.

STORAGE

KISFOAM S is sensitive to moisture and must be sealed in original containers in a dry area. Storage temperature must be between 5°C and 30°C. A 12-month shelf life can be expected from date of manufacturing if recommended storage condition is respected.

HEALTH & SAFETY

Gloves and goggles must be worn when handling KISFOAM S.

Refer to KISFOAM S SDS for further information.

TECHNICAL PROPERTIES

KISFOAM S	
Appearance	Brownish liquid
viscosity at 25°C Brookfield dv sp.260rpm	300-400 cps
Flash point	> 150°C
Density	1.12
Contact with potable water	Approved
Foam rate (5% KISCAT) 35°C	> 25 times
Start of reaction (5% KISCAT) 35°C	20-30 sec