



KISFOAM R1

Closed Cell, Effective Single-Component Polyurethane Injection Grout

DESCRIPTION

KISFOAM R1 is a single-component and highly effective injection grout. No catalyst is needed for its use and it is found to be very effective against gushing water due to its rapid reactivity with water. Its closed-cell structure also ensures a prolonged durability against future leakages.

RECOMMENDED USE

- Construction structures (dams, subway, tunnels, water retention tanks etc.).
- Diaphragm walls / Contiguous Bored Pile (CBP) Wall / Piles structure
- Roof/Ground Slabs
- Soffit Structure
- Reinforced Concrete
- Construction Joints with leakages

ADVANTAGES

- Phthalate-free
- Able to withstand high hydrostatic pressure.
- Stops leakages fast and effectively
- High foaming rate that seals large area efficiently
- Reacts even with seawater or contaminated water
- Single-Component design to eliminate site errors

PACKAGING

KISFOAM R is supplied in 10 kg metal pail

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.



b) Application

Flush the crack with water before injecting with KISFOAM R1 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.

Shake the KISFOAM R in its original sealed can well for about 20 second prior to use.

No catalyst is needed for its operation.

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

LIMITATION

KISFOAM R1 must not be applied as follows: -

- In working condition below 0°C.
- To be left exposed externally or exposed to regular foot traffic.
- As sealant for expansion, control or structural joints.

STORAGE

KISFOAM R1 is sensitive to moisture and must be sealed in original containers in a dry area. Storage temperature must be between 5°C and 40°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 R1.

Refer to KISFOAM R1 SDS for further information.

TECHNICAL PROPERTIES

KISFOAM R1	
Appearance	Brownish liquid
Viscosity at 25°C Brookfield dv sp.260rpm	400 – 800mPa.s
Density	1.10 ~ 1.20
Foam rate (10% WATER) 35°C	10 ~ 15 times
Start of reaction (10% WATER) 35°C	40 ~ 50s

IMPORTANT NOTES

Any information and/ or specification contained herein is to the best of the company knowledge, true and accurate, it is always recommended that trial to be carried out to confirm suitability of use for all products, as no warranty is given or implied in connection with any recommendations and/or suggestions made by the company representatives, agents and/or distributors.

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