

# FOAM-FLEX™ 225



## ONE-COMPONENT HIGH ELASTIC FOAM

### DESCRIPTION

**FOAM-FLEX™ 225** is a single component elastic pre-polymerized polyurethane water reactive foam. This injectable hydrophilic polyurethane water-stop resin reacts with water to form high elastic foam. When **FOAM-FLEX™ 225** comes in contact with water, the expanding polyurethane foam would create a pressurized foam material that works immediately to seal the leakage passage. **FOAM-FLEX™ 225** polyurethane foam is specially designed to react fast with high water volume to form a permanent elastic material to seal off and water-tight the leaking area.

Substrate temperature, humidity and amount of water in the leak would effect and determine the foaming time. With its fast reactive foam and low viscosity characteristic properties, this excellent quality Polyurethane Grout are used for water seal-off purpose effectively. **FOAM-FLEX™ 225** can be used in sea water retaining structure as well.



### FEATURES & BENEFITS

- + High adhesion properties
- + Elastic & permanent after cured
- + No shrinkage
- + Non-toxic when cured
- + Excellent bond strength
- + Suitable for wet and damp conditions
- + Easy Application.
- + No plasticiser as diluents which would likely decrease the bonding of PU to concrete surface, in which may cause the grouted area to LEAK AGAIN!

### APPLICATION

**FOAM-FLEX™ 225** area of usage to seal water leakage normally in building concrete structure such as :

- Flexible joint leakage part
- Leakage in concrete structure with movement.
- Underground manhole structure
- Tunnel
- Dam & Basement
- Water Retaining Structure

### TECHNICAL CHARACTERISTIC

- Specific Gravity :  $1.12 \pm 0.06$  @ (25°C)
- Elongation :  $\geq 100\%$
- Gel Time : 13 sec. @ (25°C)
- Foaming Time : 180 sec @ (25°C)
- Viscosity :  $250 \pm 50$  @ (25°C)
- Expansion Rate : 700%
- Tensile Strength :  $\geq 5.00$  kg/cm<sup>2</sup>

### PRODUCT PACKING

- Packing : 10 KG/HDPE PAIL
- Shelf life (un-open) : Six (6) months

## METHOD OF STATEMENT

Identify the leakage line or area. At about 40 – 50mm away from the leaking spot, use a hammer drill to drill at 45° to the depth until hole intercept with the crack line or leak. Make sure it's drill bit size is the same diameter as the injection packer. Remove all dust and residue from drilled hole by using hand operate air blower or piped water. Install injection packer and start to inject **FOAM-FLEX™ 225** using a hand pump or **Kühlzer XR series** electric grout machine electric grout machine. Inject the PU Grout and maintain the pressure at 5000psi for a few minutes before proceed to next grouting point. Re-inject the point by removing the used packer and re-install a new one for a second time. These shall ensure the void or under pressurized area is fully pack with **FOAM-FLEX™ 225** polyurethane system. Remove packer after material set and plug hole with POLY-Plug to make good.



## MAINTENANCE OF MACHINERY & TOOLS

For proper maintenance of machinery and tools, use **D-SOLV 100** to clean and flush pump system. Do not use any thinner or alcohol substance for cleaning.

After cleaning and flushing, fill the pump and hose system with **D-LUB 50** to preserve pump and parts. It is advisable not to use either organic oil e.g. automobile oil or cooking oil.

## HEALTH & SAFETY

Use protective clothing, gloves and goggle at all time when handling materials and high pressure machine.

Wash with plenty of water and soap if liquid is smeared on skin. Seek immediate medical advice in case of material comes in contact of eyes or swallow. Make sure proper ventilation at work site is adequate.

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## POLYCELL TECHNICAL DEPARTMENT

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Technical Data Sheet

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