

DURAL AQUA DAM 702

Two Component Polyurethane Injection Foam



EUCLID CHEMICAL

CHEMICAL INJECTION PRODUCTS

DURAL AQUA DAM 702

DESCRIPTION

DURAL AQUA DAM 702 is a two-component polyurethane injection foam. **DURAL AQUA DAM 702** is a closed-cell rigid but flexible polyurethane injection foam that can be cured with or without water. It is an environmentally friendly product; Therefore, it does not contain halogenated components and CFCs in its structure. It has excellent chemical and mechanical resistance. It is applied for waterproofing on wet soils and for consolidation on weak soils with loose particles. It provides a permanent solution in the insulation of high pressure water in water structures. **DURAL AQUA DAM 702** provides permanent waterproofing and consolidation by penetrating even capillary cracks and small gaps with its penetration feature.

PRIMARY APPLICATIONS

- In tunnels; in waterproofing and pre-injections
- Water structures and dams; in crack injection and waterproofing
- In special chemical structures; (waste water facilities and chemical pools) in the prevention of leaks
- In water wells; waterproofing joints and cracks in case of large water loss
- For consolidation in loose and weak rock structures
- Consolidation, waterproofing and preventing gas leaks in mines

FEATURES/BENEFITS

- High penetration due to low viscosity
- Fast consolidation on wet or non-watery soils
- Possibility of application even at low temperatures thanks to its special accelerator
- Consolidation with its flexible structure even on moving floors
- permanent solution underwater
- Solution against gas leaks in mines thanks to its high penetration
- Excellent adhesion to wet or dry surfaces
- It is used for consolidation and insulation in mobile mining sites.

TECHNICAL INFORMATION

The following information has been determined under laboratory conditions of 23°C and 50% relative humidity.

Typical Features	Component A	Component B
Density	1,039 ± 0,03 gr/cm ³	1,200 ± 0,05 gr/cm ³
Viscosity	100 - 150 mPas	110 - 160 mPas
Colour	Yellow	Brown

Typical Reaction Profile	
Mixing Ratio By Volume	100:100
Mixing Ratio by Weight	100:115
Free Inflation Time	90 – 110 seconds
Curing Time	200 – 230 seconds
Expansion Factor	15-20 times the initial volume
Application Temperature	+15°C / +30 °C
Service Temperature	-40 °C / +100 °C

PACKAGING

DURAL AQUA DAM 702 Component A; 20 kg drum
DURAL AQUA DAM 702 Component B; 23 kg drum

SHELF LIFE

It is 6 months in its unopened original packaging under suitable storage conditions and temperatures (+0°C/+30°C).

DIRECTIONS FOR USE

All of the materials should be available on site before the application. The application should not be done in extremely hot or cold weather, attention should be paid to the application temperatures. Packaged products should not be exposed to flame and heat directly. Component A and Component B should be shaken well before use to ensure homogeneity.

Application: DURAL AQUA DAM 702 is a two-component product applied with a mixture of 100:100 by volume or 100/115 by weight. The material must be made with injection pumps capable of applying two-component polyurethane foams. The mixture should be taken separately from the components and the mixture should be provided with a static mixer at the nozzle of the gun. Since the product reaction times are very short, the mixed material should be injected quickly and the static mixer should be changed when a pause is made. The application should be done with special teams who know the two-component material application and equipment. Drilling and packer applications to be made in the field should be completed before the application. It should be checked that the packers to be injected are sound and leakproof.

CLEAN UP

Machinery and equipment used in injection application should be protected with protective oil. In case of a break during the application, the static mixer should be changed and the application should be continued. After the application is completed, the injection equipment cleaned with suitable cleaning materials should be protected by lubricating the entire line with protective oil.

PRECAUTIONS/LIMITATIONS

- Low temperatures directly affect setting times.
- In cases where the air temperature is below 15°C, 0.5% - 1% DURAL AQUACCELERATOR 20 should be used.
- In cases where the air temperature is below 0°C, store the product and the pump at a temperature of at least 15°C for 24 hours and use a specially heated and coated pipe to inject the product.
- Attention should be paid to low and high temperatures in product stocking.
- In any case, consult the Material Safety Data Sheet before use.

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