

Eurotaff Inject 500

Water stopping and soil stabilizer polyurethane resin

Eurotaff Inject 500 + CATL. 500

Description

Eurotaff Inject 500 + CATL. 500 is a single-shot hydrophobic polyurethane based on MDI in combination with polyether polyols and an amine base catalyst. The system only reacts when it comes into contact with water, producing a rigid polyurethane foam.

Advantages

- Potable water certified
- Variable reaction time
- High expansion ratio
- Reacts with saline and mineral water
- Good chemical resistance
- Resistant against biological attack.

Typical applications

- Sealing high water flow
- Rapid sealing of leaking cracks or joints
- Void filling
- Back grouting
- Soil stabilisation

Specifications

EUROTAFF INJECT 500, All test carried out using the following mix ratio												
EUROTAFF Inject 500	100 parts by weight.											
EUROTAFF Inject CATL. 500	As a percentage of Eurotaff Inject by weight, as stated in the results.											
Water	In all tests, 10 parts by weight.											
	Cream Time				Rise Time				Expansion Rate			
CATL. 500	1 %	2 %	5 %	10 %	1 %	2 %	5 %	10 %	1 %	2 %	5 %	10 %
10 °C	128	125	41	25	10'	5'	124"	78"	800 %	1100%	1500%	2800%
	"	"	"	"		48"						
15 °C	100	68	36	23	9'	5'	120"	75"	900 %	1400%	2000%	2900%
	"	"	"	"		4,9"						
25 °C	73	55	24	20	4'	4'	115"	62,5"	1000%	1500%	2500%	3000%
	"	"	"	"	40"	45"						
35 °C	60	30	25	19	3'	3'	108"	60"	1000%	2000%	2500%	3000%
	"	"	"	"	3,9"	4"						

Eurotaff Inject 500

EUROTAFF Inject 500	
Appearance	Brown liquid
Viscosity at 25°C (Brookfield DV II spindle no. 2 at 60 rpm)	120-220 mPa.s
Flash point	> 180 °C
Density at 25 °C	1,11
EUROTAFF Inject CATL. 500	
Appearance	Clear liquid
Viscosity a 25 °C (Brookfield DV II spindle nº 2 a 60 rpm).	25-35 mPa.s
Flash point	> 180 °C
Density at 25 °C	1,0

Application guideline

Eurotaff Inject 500 is an injective hydrophobic and waterproofing system for concrete, masonry structures and sandy soils even when strong leaks are encountered. Adaptable reactions time is possible by varying the catalyst ratio from 2% to 10%. Reaction with the water results in the formation of a rigid polyurethane foam, which is hydrophobic and chemically resistant. On certain injections it is advisable to give a seconds pass using Eurotaff Inject 500/510/525/530/570 to provide a flexible seal. Keep containers sealed whilst not being used. Moisture may be absorbed into the Eurotaff Inject 500 from the atmosphere causing it to react. Strict considerations should be taken for applications below 10°C to avoid possible crystallisations.

The reaction time can be adjusted from 10 minutes to 30 seconds. See table of reaction times overleaf. Depending on the velocity of the running water or the amount of water expected in a crack, the reaction time should be fixed before injection. Mix the resin using a dry clean drill and paddle mixer for a minimum of 15 sec. before applications. The pre-mixed resin can be pumped by means of a single component injection pump that is equipped for high pressure and low volume or for large water leaks with high volume and low pressure.

Note: Always make sure that the material is homogeneous. Shake well before use.

Yield

1Kg = 0.91 litres

Packing

Eurotaff Inject 500 is supplied in 5kg, 20kg and 200kg drum.

Packaging size may vary subject to local regulations and requirements.

Eurotaff Inject 500

Storage

Eurotaff Inject 500 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

Health & safety

Eurotaff Inject 500 should only be used as recommended. General Safety regulations should be carefully read prior to application. Our recommendations for protective equipment should be strictly adhered for your personal protection and safety.