TamPur 170

Flexible Polyurethane Grout

DESCRIPTION

TamPur 170 is based on a prepolymer of polyurethane (Part A) and a polyol and castor oil component (Part B). The product has been formulated to reduce foaming during the reaction with the polyurethane prepolymer, giving a hydrophobic injection resin. The non-toxic plasticizer is used so the cured resin is eco-friendly.

KEY BENEFITS

- Forms an impermeable elastomeric seal
- Can withstand very high pressure
- Can be cut or drilled out
- Slightly expansive and resilient
- Flexible
- Eco-friendly

TYPICAL APPLICATIONS

- Sealing and waterproofing cracks
- Sealing pipe ducts
- Sealing cable entries
- Sealing dry cracks prone to periodical water ingress
- Secondary injection
- For use with pre-fabricated injection tube

TECHNICAL DATA

TamPur 170: Part A	
Appearance	Brown liquid
Density at 25 °C	1.15 g/cm^3
Viscosity at 25°C Brookfield DV 11 spindle no. 2 at 30 rpm	250 - 400 mPa·s

TamPur 170: Part B	
Appearance	Pale yellow liquid
Density at 25 °C	0.98 g/cm^3
Viscosity at 25 °C Brookfield DV 11 spindle no. 2 at 30 rpm	450 - 550 mPa·s
TamPur 170: (A:B at 2:1 ratio by weight)	
Appearance	Brown liquid
Density at 25 °C	1.14 g/cm^3
Viscosity at 25°C Brookfield DV 11 spindle no. 2 at 60 rpm	250 - 350 mPa.s
Pot life at 25 °C (85g sample)	>50 minutes

Reaction times

The following shows the influence of adding TamPur 170 Accelerator to TamPur 170 Part B (1kg mixed sample scale)

TamPur 170 Accelerator	Gel Time at 25°C
0%	40 minutes
2%	4 minutes
4%	1.5 minutes
Mixing in large quantities will reduce working life of the material	

Testing TamPur 170 - All tests carried out using a 2:1 mix ratio.
Gel time at 25°C is > 40 minutes. This will increase at lower temperatures (15 °C; > 1 hour, 40 minutes), and decrease at higher temperatures (35°C; > 15 minutes).

Physical Properties of End Product	
Tensile strength	3.9 MPa
Elongation as break	64%
Modulus of elasticity - flexural	17.4 MPa
Shore hardness	90 A 20 D

All technical data stated herein is based on tests carried out under laboratory conditions.

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APPLICATION GUIDELINES

TamPur 170 is designed for use in the sealing of cracks in concrete or masonry structures and for injection into Tam Injection tubes.

TamPur 170 can, with care, be injected using a single piston hand pump. Mix the individual components Part A and Part B separately using a slow speed dry clean drill and paddle mixer for approx. 30 seconds. Mix thoroughly equal parts of Part A and Part B in a large dry mixing container (plastic preferred), until a homogenous mixture is obtained (at least 3 minutes). Avoid air entrapment during mixing. Longer mixing times may be required in cooler weather. Allow a maximum of 10 minutes to inject the resin if using this method.

The pump must be thoroughly cleaned before the material starts to set with TamPur EcoCleaner after each use.

On larger contracts, it is advisable to use a twin piston pump and mix the two parts together at the point of injection.

Note: Careful consideration should be given to application to below 10°C on a falling thermometer to avoid possible crystallisation.

PACKAGING

8.25 kg pack = 7.5 litres cured.

STORAGE

TamPur 170 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

TamPur 170 should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.