TamPur 170 (ECO Range)

Two-Component Flexible Polyurethane Grout

CONSTRUCTION CHEMICALS

TECHNICAL DATA SHEET

DESCRIPTION

TamPur 170 is part of our new ECO range and is a two component, low viscosity, hydrophobic polyurethane injection resin formulated to produce a highly resilient flexible gasket. TamPur 170 (ECO Range) is especially suited for cracks and joints that exhibit movement and for injection into injection tubes. TamPur 170 (ECO Range) is also commonly used as a second pass injection resin. TamPur 170 (ECO Range) is phthalate free and environmentally friendly.

TamPur 170 (ECO Range) is tested according to EN1504-5 in compliance with CE-marking.

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 (ECO Range): 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 (ECO Range): 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 (ECO Range): (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)	> 40 minutes

Reaction times

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

TamPur 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 (ECO Range) - 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 (ECO Range) is designed for use in the sealing of cracks in concrete or masonry structures and for injection into Injection tubes.

TamPur 170 (ECO Range) can, with care, be injected using an appropriate single component 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. If you need any further information about pumps and accessories, please contact your local Normet representative.

The pump must be thoroughly cleaned with TamPur EcoClean before the material starts to set and 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 (2:1 mix ratio by volume).

Note:

- It is recommended that the material be conditioned to appropriate temperatures for at least 12 hours prior to application.
- Careful consideration should be given to application below 10°C on a falling thermometer to avoid possible crystallisation.

PACKAGING

8.25 kg pack = 7.5 litres cured

STORAGE

TamPur 170 (ECO Range) 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 (ECO Range) 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.