

DESCRIPTION



TamPur 100 / Tam Kat 100 is a single-shot hydrophobic polyurethane based on MDI in combination with polyether polyols and an amine based catalyst. The system only reacts when it comes into contact with water, producing a rigid polyurethane foam.

KEY BENEFITS

- > WRC & PUB Singapore approved
- > Variable reaction time
- > High expansion ratio
- > Reacts with saline and mineral water
- > Solvent free, environmentally safe.
- > 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

TECHNICAL DATA

TamPur 100	
Appearance	Brown liquid
Viscosity at 25°C (Brookfield DV II spindle no. 2 at 60 rpm)	180 - 220 mPa·s
Flash point	> 180°C
Density at 25°C	1.11
TamKat 100	
Appearance	Clear liquid
Viscosity at 25°C (Brookfield DV II spindle no. 2 at 60 rpm)	25 - 35 mPa·s
Flash point	> 180°C
Density at 25°C	1.0

Testing TamPur 100 - All tests carried out using the following mix ratio.

TamPur 100: 100 parts by weight

TamKat 100: As a percentage of TamPur 100 by weight, as stated in the results.

Water: In all tests, 10 parts by weight.

Cream Time				
TamKat	1%	2%	5%	10%
10°C	128 sec	125 sec	41 sec	25 sec
15°C	100 sec	69 sec	36 sec	24 sec
25°C	73 sec	55 sec	24 sec	20 sec
35°C	60 sec	30 sec	25 sec	19 sec
Rise Time				
TamKat	1%	2%	5%	10%
10°C	10 min	5 m 49 sec	124 sec	78 sec
15°C	9 min	5 m 5 sec	120 sec	75 sec
25°C	8 min	4m 45 sec	115 sec	63 sec
35°C	5 min	3m 4 sec	108 sec	60 sec
Expansion Rate				
TamKat	1%	2%	5%	10%
10°C	800%	1100%	1500%	2800%
15°C	900%	1400%	2000%	2900%
25°C	1000%	1500%	2500%	3000%
35°C	1000%	2000%	2500%	3000%

Keep containers sealed whilst not being used. Moisture may be absorbed into the TamPur 100 from the atmosphere causing it to react.

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

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

APPLICATION GUIDELINES

TamPur 100 is a complete system for water cut off in concrete, masonry structures and sandy soils even when strong leaks are encountered. Adaptable reaction 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 second pass using TamPur 150 / TamPur 170 / TamPur 190 to provide a flexible seal.

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 application.

The pre-mixed resin can be pumped by means of a single component injection pump that is equipped for high pressure and low volume (Tam HP1 / Tam F370) or for large water leaks with high volume and low pressure (Tam HP2).

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

RELATED PRODUCTS & EQUIPMENT

TamPur Cleaner
TamPur Ecoclean

YIELD

1 kg = 0.91 litres

PACKAGING

TamPur 100 is supplied in 20 kg pail.
TamKat 100 is supplied in 2kg bottle.
Packaging size may vary subject to local regulations and requirements.

STORAGE

TamPur 100 / TamKat 100 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 100 / TamKat 100 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 Health & Safety data sheet is available upon request from your local Normet representative.

YOUR LOCAL CONTACT DETAILS

Normet Singapore Pte Ltd
21, Moonstone Lane
#07-03 Poh Leng Building
Singapore 328 462

Phone +65 6297 7727
Fax +65 6392 5895