

Two-Component Polyurea-Silicate Foam for Filling Cavities

DESCRIPTION

TamPur 117 is a two-component, solvent-free polyurea-silicate foam specifically designed for rapid cavity fillings and concrete and strata consolidation. Low in peak exotherm reaction and heat development compared to polyurethane.

TamPur 117 is available in two grades, standard (STD) and low temperature resin (LTR). TamPur 117 LTR is to be used in cold climate or when a faster set time is required at normal temperature.

KEY BENEFITS

- › Shows good adhesion to wet substrates
- › Very fast reacting material, suitable for applications when foaming speed, flexibility and flame retardant properties are required
- › Suitable for spray-on applications
- › Good chemical stability
- › Fire retardant
- › User friendly
- › Environmentally friendly

TYPICAL APPLICATIONS

- › Filling cavities in concrete and strata
- › Consolidation of fractured rock, sands and gravel
- › Stabilisation of cavities in tunnels

TECHNICAL DATA

TamPur 117		
	Component A	Component B
Colour	Clear, colourless	Dark brown
Density (at 25°C)	1.30 - 1.35 g/cm ³	1.18 - 1.24 g/cm ³
Flash point	> 200°C	> 200°C
Viscosity (at 25°C)	200 - 300 mPa·s	150 - 400 mPa·s

Reaction data: A:B = 100:84 (by weight at 25°C)		
1:1 by volume		
	STD	LTR
Start of reaction	10 - 30 s	7 s
Tack free	50 s	30 s
Foam Factor	20 - 30X	-

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

They may vary in practice due to thermal exchange between resin and strata, surface properties of strata, humidity, pressure and other factors.

APPLICATION GUIDELINES

Components A and B of TamPur 117 are delivered ready-to-use. They are injected in the ratio of 1:1 by volume using a two component injection pump equipped with a static in-line mixer.

Note: The curing reaction time and foam factor will vary depending on the temperature of the TamPur 117 resin, the rock and the ground water. Both components should be stored above 15°C prior to application and we recommend in stirring Component A before use.

To achieve thorough mixing of components A & B during injection, use of a static in-line mixer in connection with the mixing head is essential. The length of the static mixer should be at least 50 cm long.

Both components A & B drums should be thoroughly shaken before use.

For full application details, please contact your local Normet sales representative.

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.

STORAGE

Resins must not be subjected to freezing conditions during transportation and storage. Keep out of direct sunlight, in a well-ventilated area where the average temperature is between 10°C and 45°C, then a shelf life of 12 months can be expected. (The product can withstand temperature spikes of up to 55°C for up to 24 hours. When stored at constant high temperature above 35°C, a shelf life of six months is expected.)

HEALTH & SAFETY

TamPur 117 should only be used as directed. We always recommend that the Safety data sheet 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.