

TamAcryl 2000 LTX (ECO Range)

normet

CONSTRUCTION CHEMICALS

TECHNICAL DATA SHEET

Acrylic Injection Gel for Permanent Water Stopping
Potable Water Certification (WRAS UK)

DESCRIPTION

TamAcryl 2000 LTX is part of our new ECO range and is produced by Normet UK Ltd. in line with ISO 9001, ISO 14001, and Normet's Global Construction Chemical manufacturing guidelines. It is supplied as a 5 Part "Set" and mixed as per the following guidelines to form a two component injection system.

Upon mixing of the components, a chemical reaction occurs and a permanent waterproof gel is formed for use in water stopping applications where product performance, durability and flexibility are required. The material gel time can be controlled to suit site conditions, making the product versatile to a range of site and climatic conditions.

KEY BENEFITS



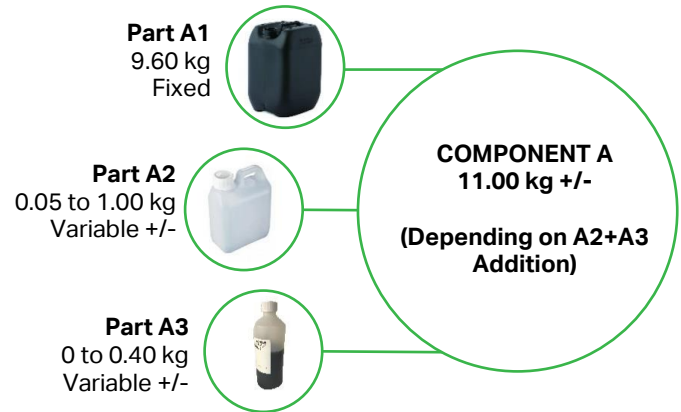
- › Potable water certified with WRAS
- › Permanent water stopping
- › Ultra-low viscosity for crack penetration
- › Good chemical resistance
- › Reacts even in the presence of mineral and saline conditions
- › Tailored to both low and high temperatures using Part A2 Accelerator and Part A3 Retarder
- › Easy-to-mix and applicator friendly
- › Simple mixing to allow controllable gelling / setting times

TYPICAL APPLICATIONS

- › Leak sealing (masonry and concrete)
- › Tunnel linings (cracks and gaskets)
- › Injection tubes and hoses (compatible with all major hose systems)
- › Expansion, construction and cold joints
- › Soil stabilisation
- › Secondary injection underground basements, car parks, road underpass
- › Shaft wall linings (VSM, SCL, Cast)
- › PVC compartmentalised membrane grouting

APPLICATION GUIDELINES

TamAcryl 2000 LTX (ECO range) is injected at a 1:1 ratio of component A and component B. The makeup of each component is shown below;



Component A:

The Gel Timing is controlled in Component A by the variable additions of Part A2 and Part A3 when added to the 9.60 kg Part A1 (fixed quantity). The Part A2 and Part A3 addition level shall be determined by the applicator, in order to achieve desired Gel Times. Example gel times are shown in table 3 and these values are presented for guide purposes only.

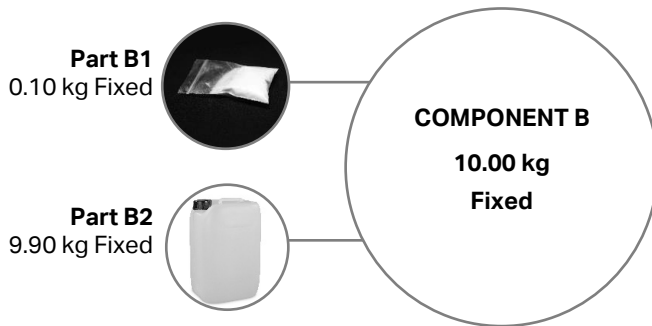
Consideration must be given to ambient temperature conditions as the warmer the climate the faster the resin set time. Normet recommend simple cup samples to be mixed up and timed to gauge ideal levels of A2 and A3 addition to provide the desired gel time. See the below table for approximate mixing / set time options as a point of reference.



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. Formerly known as TamAcryl 2000.

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Component B:

The Part **B1** powder shall not be adjusted unless specifically instructed by your local Normet representative. All of Part **B1** powder shall be added to all of Part **B2** on site and stirred thoroughly until **B1** is fully dissolved. Once **B1** is dissolved component B is ready to use.

Component A and Component B should then be combined to create an acrylic gel. It is recommended that a twin piston pump as detailed below is used.

Pumping Equipment:

Twin-Piston Pump

› With suitable mixing head

Single-Piston Pump

› Extra care must be given to avoid pump blockages.

Cleaning

Cleaning involves using clean water to remove the resin from the pump's components before it gels.

STORAGE

TamAcryl 2000 LTX (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

TamAcryl 2000 LTX (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.

COMPONENT CHARACTERISTICS

Table 2 – Technical properties of component A, B and combined product.

Technical Data	Combined Part A	Combined Part B	Mixed
Density (kg/m ³) EN ISO 2811	1.20 ± 0.05	1.04 ± 0.05	1.13 ± 0.05
Viscosity (mPa·s) EN ISO 3219	30 - 60	10 - 20	15 - 25

TECHNICAL DATA

Table 3 shows example gel times using variable components **A2** and **A3** at a range of ambient temperatures.

Table 3 – example gel times.

Gel Time	20°C	30°C	40°C
5 – 10 mins	A2= 0.75 kg	A2= 1.00 kg	A2= 0.75 kg
	A3= 0.20 kg	A3= 0.20 kg	A3= 0.20 kg
10 – 20 mins	A2 = 0.5 kg	A2 = 0.5 kg	A2 = 0.75 kg
	A3 = 0.2 kg	A3 = 0.2 kg	A3 = 0.4 kg
20 – 30 mins	A2 = 0.75 kg	A2 = 0.75 kg	A2 = 0.5 kg
	A3 = 0.4 kg	A3 = 0.4 kg	A3 = 0.4 kg
< 1 hour	No option	A2 = 0.5 kg	A2 = 0.25 kg
		A3 = 0.4 kg	A3 = 0.4 kg

Note: this table is given as a guide only and it may be found that alternative combinations of Part A2 and A3 can give similar results. On Site trial tests should be conducted prior to application to determine appropriate gel time under site conditions.

All technical data stated herein is based on 100 g tests carried out under laboratory conditions.