

Acrylic Injection Gel

## DESCRIPTION



TamAcryl 2000 is a blend of acrylic polymers used in conjunction with an accelerator and catalyst system. Upon mixing of the components, a chemical reaction occurs and a waterproof gel is formed. It is available in two grades - standard and slow set.

## KEY BENEFITS

- > Ultra-low viscosity
- > Swells up to 5% upon contact with water
- > Very Flexible > 100%
- > Good chemical resistance
- > Reacts even in the presence of mineral and saline conditions
- > Potable water certified
- > Incorporates anti-corrosion agents

## TYPICAL APPLICATIONS

- > Leak sealing
- > Injection tubes
- > Void filling
- > Soil Stabilisation
- > Tightening up

## TECHNICAL DATA

### Reaction Times

The reaction time can be varied to suit prevailing conditions. To ascertain accelerator dosage required use 2 clean disposable containers e.g. plastic cups used in vending machines. Pour an equal amount of Part A and Part B into separate containers, each container should be able to hold the contents of the other, see below. Using the reaction table as a guide, add the accelerator to the Part A and mix. Pour one container into the other repeatedly until the material gels. Use this as a guide to judge accelerator dosage.

### Gel Times (For an 85 g sample)

By Weight of Part A (Resin)	Slow set 25°C	Standard set 20°C	Standard set 30°C
2% accelerator	49 min	3 min	1 min
3% accelerator	29 min	90 sec	45 sec
4% accelerator	20 min	1 min	30 sec
6% accelerator	11 min	30 sec	15 sec
8% accelerator	8 min	14 sec	8 sec

Technical Data	Part A Resin	Part B Catalyst	Acc	Mixed
Viscosity	30 - 60 mPa-s	1 - 2 mPa-s	10 - 20 mPa-s	≤ 9 mPa-s
Solids	40 - 45%	4%	85%	> 25%
Elongation at break	-	-	-	> 100%
Modulus of elasticity	-	-	-	12.1 MPa
Pressure resistance				0.16 MPa
Density	1.10	1.06	1.10	1.09
Flash point	> 180°C	> 180°C	> 150°C	> 150°C

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.

## Acrylic Injection Gel

**Chemical resistance** (42 days immersion at 25°C)

Test Liquid	Reference for group of chemical compounds	Evaluation
Acetic acid, 10% in water	Organic acids up to 10%	Stable
Common salt, 20% in water	Salt solutions up to 20%	Stable
Diesel	Diesel and heavy heating oil	Stable
Ethyl acetate	Aliphatic esters	Stable
Formaldehyde, 36% in water	Aldehydes	Stable
Isopropanol, 50% in water	Alcohols	Stable
Methanol, 50% in water	Alcohols	Stable
Methyl isobutyl ketone	Aliphatic ketones	Stable
N – Methyl pyrrolidone	Nitrogen containing solvents	Stable
Petrol, unleaded normal	Motor fuel	Stable
Sodium hydroxide solution, (pH 11-12)	The same as the pH in concrete	Stable
Sodium hydroxide solution, 2% in water	Inorganic alkaline solutions	Unstable, swelled
Sodium hydroxide solution, 20% in water	Inorganic alkaline solutions	Unstable, swelled
Sulphuric acid, 2% in water	Mineral acids	Stable
Sulphuric acid, 2% in water	Mineral acids up to 20%	Stable
Toluol	Aromatic solvent	Stable
Xylol	Aromatic solvent	Stable

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

**APPLICATION GUIDELINES**

TamAcryl 2000 is injected at a ratio of 1:1 Part A: Part B by volume. Ideally using a Twin Piston Pump such as TP2 / TP4 Pump or if extremely careful a single component pump. Cleaning involves using water to remove the resin before it sets.

Note: Once the accelerator is added to the Part A it should be used within 24 hours.

**YIELD**

1 kg = 0.92 litres

**STORAGE**

TamAcryl 2000 should be stored at room temperature (min 4°C and max 30°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 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.