

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.

KEY BENEFITS

- > Ultra-low viscosity
- > Swells up to 5% upon contact with water
- > 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
- > Soil stabilisation
- > Tightening up

TECHNICAL DATA

Technical Data	Part A	Part B	Acc	Mixed
Viscosity (mPa·s) EN ISO 3219	30 - 60	1 - 2	10 - 20	≤ 9
Non Volatile Matter (%) EN ISO 3251	40 - 45	6	42-45	> 25%
Density (g/ml) EN ISO 2811	1.20	1.06	1.10	1.13

		Volume	Weight
Volume and Weight Change BS EN 14498	Regime A 336 Hours	+48%	+49%
	Regime B 10 cycles	+6%	+6%
Water Tightness BS EN 14068	Water Tight at 2 Bar Water Tight after 500 cycles		

Reaction Times

The reaction time can be varied to suit prevailing conditions. To ascertain accelerator dosage required:

- > Use two 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.
- > Add between 2% and 8% accelerator to the Part A and mix.
- > Pour one container into the other.
- > Keep pouring the contents between two cups until the material gels.
- > For an initial guide, please see the below table or ask your Normet Representative.

Accelerator Dosage	The Reaction Time of 200 ml TamAcryl 2000 at 20°C	
	Laboratory Conditions. Accelerator Into 100ml Part A	
8%	<10s	
6%	10s - 15s	
4%	15s - 25s	
3%	25s - 60s	
2%	60s - 150s	

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.

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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 from the pump' components 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

PACKAGING

TamAcryl 2000 is available in two standard grades:

- > The 50 kg Pack requires no on site dilution of the Part B
 - > 25 kg Part A and 25kg Part B
- > The 26.5 kg Pack requires on site dilution of Part B
 - > 25 kg Part A and 1.5kg Part B
 - > 23.5 kg Potable Water is added on site.

All packaging options require TamAcryl Accelerator, and more pack size options may be available from your local Normet Representative.

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.

