



Leak Sealing

Solutions to prevent the ingress of water and water-borne contaminants into civil engineering structures and buildings



- ▶ Ultra fine joints & cracks
- ▶ Sealing against high water flows
- ▶ Flexible joint repairs
- ▶ Sealing cable entries & pipe ducts
- ▶ Pipeline repairs
- ▶ Reinstating structural integrity
- ▶ Protecting steel reinforcement

Waterproofing

Leak Sealing

Ground Stabilization

Concrete Admixtures

Construction and Repair

Tunnelling and Mining

Equipment



Specialists in Sealing Leaks



TAM Leak Sealing

A package of solutions designed to seal leaks and make civil engineering structures and buildings water-tight.

TAM International is a world leader in specialist construction chemicals and systems for the civil construction, building, mining, tunnelling, underground construction and general building sectors.

The company specialises in problem-solving technologies associated with water-penetration, ground stabilization and consolidation, underground works, waterproofing and the repair and protection of reinforced concrete.



Degradation of concrete and masonry due to the ingress of water and water-borne contaminants is a major international problem with huge financial implications and opportunity losses. TAM's package of leak sealing products provides proven solutions designed to meet the most demanding conditions.

“ TAM - over 25 years
continued investment in
leak-sealing technology ”

TAM's products have been used extensively in locations all around the world. They provide excellent performance and stability, even under the most extreme conditions.

TAM's goal is to supply the highest quality solutions, together with market leading technical support to our valued customers everywhere.



▷ TAM Leak Sealing

TAM provides a full range of acrylic and polyurethane injection polymers and resins and cement mortars to stop water and seal cracks.

TAM's materials include the TamAcryl range, based on ultra-low viscosity acrylic polymers, the TamPur range of low viscosity polyurethane resins and the TamCrete range of fast-setting cement compounds. Typical applications are:

- ▶ Sealing ultra fine joints/cracks and movement joints/cracks
- ▶ Sealing structures against high water flows
- ▶ Sealing concrete against water ingress
- ▶ Sealing masonry and brick structures
- ▶ Sealing cable entries and pipe ducts
- ▶ Reinstating structural integrity and protecting steel reinforcement



“
High strength solutions
that are proven
extensively in applications
around the world”

The integrity of many civil engineering structures, buildings and foundations relies, in part, on the ability to prevent the ingress of water and water-borne contaminants.

TAM has a long history of providing injection resins and grouts for almost every situation in order to meet the varied demands of the industry.

For more information, visit the company's website -

www.taminternational.com



▷ TAM Leak Sealing

Product summary and selector

TamAcryl 2000

A two-component, ultra-low viscosity, hydrophilic acrylic grout which when set, forms a resilient gel. Adjusting the amount of accelerator and catalyst will vary the gel time to enable greater on-site control. It will swell up to 5% in contact with water (including mineral and saline water). It is highly flexible and can accommodate up to 100% movement. It is potable water certified and is available in two grades - 'standard' and 'slow-set'.

Typical applications:

- ▶ Void-filling in fractured rock
- ▶ Soil/sand stabilization
- ▶ Sealing underground structures
- ▶ Tightening up after cement grouting

TamAcryl 3000

A two-component, ultra-low viscosity, water-based (high solids) blend of acrylic polymers in conjunction with a latex modified catalyst system which forms a resilient gel when set. Adjusting the amount of accelerator will vary the gel time to enable greater on-site control. It will swell up to 5% in contact with water (including mineral and saline water) and is available in two grades - 'standard' and 'slow-set'.

Typical applications:

- ▶ Ultra-fine joints and cracks
- ▶ Void filling
- ▶ Soil stabilization
- ▶ Sealing against water, seawater, sewage

TamPur 100

A single-shot, environmentally-friendly, hydrophobic polyurethane based on MDI, polyether polyols and an amine catalyst. Adjusting the amount of catalyst will vary the reaction time to enable greater on-site control. The system reacts and expands on contact with water (including mineral and saline water) to form a rigid foam. It is certified for use with potable water.

Typical applications:

- ▶ Sealing high water flows
- ▶ Back grouting
- ▶ Soil stabilization
- ▶ Void-filling
- ▶ Rapid sealing requirements



▷ TAM Leak Sealing

Product summary and selector - continued

TamPur 120

A two-component polyurethane which when mixed, forms a high compressive strength, low foaming, hydrophobic polyurethane grout. The adjustable reaction time and high compressive strength makes this ideal to “cut off” large water leaks, inject into voids and gravity feed beneath concrete slabs.

Typical applications:

- ▶ Extreme water ingress
- ▶ Large voids
- ▶ Stabilization of slabs
- ▶ Ground consolidation
- ▶ Wet/dry fissure grouting

TamPur 125

A two-component polyurethane grout which when mixed, forms a tough, rigid and chemically-resistant hydrophobic foam. This will react rapidly to “cut off” large water leaks. It is certified for use with potable water.

Typical applications:

- ▶ Extreme water ingress
- ▶ Large voids
- ▶ Dry fissure grouting
- ▶ Foundation stabilization

TamPur 130

A single-shot, environmentally-friendly, semi-flexible polyurethane resin grout based on polymeric MDI, polyether polyols and an amine-based catalyst. Adjusting the amount of accelerator will vary the reaction time to enable greater on-site control. When mixed, the system reacts on contact with water (including mineral and saline water) producing a semi-flexible hydrophobic polyurethane foam which can withstand high hydrostatic pressures.

Typical applications:

- ▶ Sealing cracks in concrete, masonry and brickwork
- ▶ Sealing against water ingress through cracks and joints
- ▶ Void filling and back grouting

TamPur 150

A single-component, flexible, polyurethane resin grout. When mixed, the system reacts on contact with water (including mineral and saline water) producing an hydrophilic elastomeric seal. It can be injected directly or with clean water. Adjusting the ratio will vary the reaction time and foaming ratio. It is certified for use with potable water.

Typical applications:

- ▶ Sealing cracks in concrete, masonry and brickwork
- ▶ Sealing against water ingress through cracks and joints
- ▶ Areas of exposure to organic solvents, mild acids and alkalis



▷ TAM Leak Sealing

Product summary and selector - continued

TamPur 153

A single-shot, environmentally-friendly, hydroactive, flexible polyurethane resin. When mixed, the system reacts on contact with water (including mineral and saline water) producing a flexible hydrophobic foam which is resistant to fungi, gases and many chemicals.

Typical applications:

- ▶ Sealing cracks in concrete, masonry and brickwork
- ▶ Sealing against water ingress through cracks and joints
- ▶ Areas of exposure to corrosive environments
- ▶ Where thermal expansion/contraction and wet/dry cycles are anticipated.

TamPur 156

A single-component, low-viscosity, hydrophilic, environmentally-friendly, flexible, polyurethane based on TDI with polyether polyols. It can be injected as a neat resin or mixed with up to 10 parts of water to form a gel. The system can be modified to give greater shrinkage resistance by incorporating a gel reinforcing agent.

Typical applications:

- ▶ Sealing cracks in concrete, masonry and brickwork
- ▶ Sealing against water ingress through cracks and joints
- ▶ Sewer and dirty water grouting

TamPur 170

A two-component, low-viscosity solid hydrophobic, elastomeric grout based on a polyol and a polyurethane prepolymer. Adjusting the amount of accelerator will vary the reaction time to enable greater on-site control. The cured seal can be cut or drilled.

Typical applications:

- ▶ Sealing cracks in concrete, masonry and brickwork
- ▶ Secondary injection
- ▶ Sealing cable entries/pipe ducts



▷ TAM Leak Sealing

Product summary and selector - continued

TamPur 190

A two-component, low-viscosity, environmentally-friendly, highly flexible (> 80% elongation) polyurethane resin which does not foam even if pumped underwater. The mixed material can swell up to 5% and will displace water. It cures to form a resilient waterproof gel capable of accommodating movement.

Typical applications:

- ▶ Sealing cracks in concrete, masonry and brickwork
- ▶ Liquid gaskets
- ▶ Duct/pipe sealing
- ▶ Secondary injection
- ▶ Void filling

TamCrete Plug

A single-component, fast-setting, cement-based compound that instantly stops running water or seepage. It sets in about 70 seconds and becomes harder when subjected to constant moisture.

Typical applications:

- ▶ Water cut-off under hydrostatic pressure
- ▶ Surface sealer for cracks
- ▶ Cable and pipe entries and joints

TamCrete PolyPlug

A single component, fast-setting, fibre-reinforced, polymer modified, cement-based compound that stops running water or seepage. It sets in about two minutes.

Typical applications:

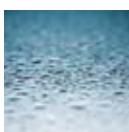
- ▶ Water cut-off
- ▶ Where high strength is required
- ▶ Cable and pipe entries and joints

Always refer to individual Technical Data Sheets and Health & Safety Data Sheets for more detailed information.



▷ TAM does more than leak sealing

TAM has over 25 years of problem-solving experience in locations around the world.



Other TAM product groups

TAM also manufactures and distributes products for -

- ▶ Waterproofing
- ▶ Ground Stabilization
- ▶ Concrete Admixtures
- ▶ Construction & Repair
- ▶ Tunnelling & Mining
- ▶ Equipment

Please ask for more information or visit

www.taminternational.com

Note to Specifiers

Our objective is to provide detailed professional advice and support to specifiers and users. We achieve this through training and familiarisation programmes, through our international teams of engineers and through a network of distributors and applicators.

TAM recognises that every leak sealing requirement is different and we will strive to ensure that the most appropriate remedial measures are made available, tailored when necessary, on every job.

Please contact your local TAM office, distributor or applicator for further advice or information.

“ Our philosophy is to support
specifiers and users from
beginning to end ”



▷ Equipment

Our extensive ranges of specialist equipment and systems are tailor-made for applying TAM leak sealing products and are available for sale, lease and hire.

Our equipment range has been specially designed and selected for efficiency, productivity and ease of use. We understand that appropriate reliable equipment can influence the success and outcome of a project for our customers, therefore we are committed to support you all the way.

“ We are committed
to support you
all the way ”

Our range of specialist Pumps and Accessories enables superior application of our speciality products in waterproofing, repairing, protecting and sealing.



When applying sprayed concrete for mines, tunnels and other civil engineering structures, our range of fully self-propelled, mechanized and automated spraying systems deliver high productivity, superior operator safety and outstanding quality.

To help our customers achieve successful and effective results, TAM provides full equipment servicing, including all technical aspects of pump usage and application details.



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