



# AVM Aussie Grout 913

(MDI Polyurethane Based Injection Resin)

Sections 036000 / 036400

Injection Grout

## Product Name

AVM Aussie Grout 913

## Manufactured by

AVM Industries, Inc.  
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## Product Description

**Aussie Grout 913** Polyurethane Foam mixed with Aussie Accelerator 910 is a hydrophobic water-activated, (hydro- active), water cut-off grout and foam seal grout MDI based polyurethane. The resin is 100% solvent free and 100% solids. The gel-time of the product is adjustable by the mandatory adding of a certain percentage of Aussie Accelerator 910. **Aussie Grout 913** Polyurethane Foam is NSF/ANSI 61 Drinking Water Contact Approved.

Upon contact with water Aussie Grout Polyurethane Foam reacts to a semi flexible foam while expanding its volume 30 to 40 times based on accelerator concentration. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not affected by water or dryness. The reacted material essentially does not shrink or swell.

Depending on the amount of accelerator added and the pressure of injection, **Aussie Grout 913** Polyurethane Foam reacts to a dense, closed cell, semi rigid material or a more open cell, semi flexible product. For best waterproofing results the closed cell structure is desired. **Aussie Grout 913** Polyurethane Foam is designed for sealing water leaks and cutting off gushing water. Due to the low viscosity of the material, **Aussie Grout 913** Polyurethane Foam offers good penetration in hairline crack injection. The product can be used for the filling of voids, cracks and honeycombing in stone or concrete structures, and can be applied as a non- shrink, high strength soil stabilization grout when used with a reduced accelerator ratio. The moisture content of the soil must be sufficient to ensure reaction.

## Where to Use

- Treatment of water infiltration and ground water ingress.
- Treatment of soils
- Treatment of voids and cavities, in the form of sand grouts.
- Injection of water bearing cracks in concrete masonry walls.
- Waste Water Tanks, Water Reservoirs
- Sewers, Manholes, Utility Boxes

## Installation Guidelines

**Aussie Grout 913** Polyurethane Foam and the Aussie Accelerator 910 are supplied separately to allow adjustment of gel-time. It is mandatory to add Aussie Accelerator 910 to ensure a complete reaction as designed. A higher percentage of Accelerator added will increase reactive speed, expansion volume and will lower the density of the product accordingly. The accelerator system offers a very flexible range of reactive properties, gel-time and expansion rate which make this product extremely versatile for many applications. Since the end product is of cellular structure, a higher density is favored for best waterproofing properties. Recommended mix ratios are between 3% and 10% of Accelerator added. In situations of high water flow rates and / or low temperatures, ratios may be increased to 25%. For hairline crack injection and soil stabilization ratios may be lowered to less than 5%. Observe temperature and humidity of the environment, since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule of thumb: High temperatures and high humidity decreased gel-time.

**Aussie Grout 913** Polyurethane Foam reacts with the moisture in the structure and does not need large amounts of water to react. Simultaneous injection of water is typically not necessary. If the area of application seems to be completely dry, pre-injection of water may be recommended in some circumstances.

All equipment, pumps and hoses must be dry. Avoid moisture contact with the mixture to prevent premature reaction. If product foams while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment.

## Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **Aussie Pump Flush 919** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

## Health and Safety

Protect your health. Always use safety gear in compliance with OSHA and all applicable local and job-site regulations. While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During the pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect job site from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

## Availability and Cost

Contact AVM Industries or your approved applicator for pricing and availability.

## Technical Services

Technical services are available by contacting our offices at: **888.414.1041** or **818.888.0050** or visit **www.avmindustries.com**

## System Specifications

See next page.

## Technical Data/Properties

| Technical Data         | Aussie Grout 913  | Aussie Accelerator 910  | Test Method    |
|------------------------|---|---|----------------|
| Solids                 | 100%  | 100%  | ASTM D 1010    |
| Density, Lb/gal - g/ml | 1.12  | 0.93  | ASTM D 3800-79 |
| Boiling Point, °C / °F | 205°C / 400°F   | 170°C / 338°F   |                |
| Flash Point, °C / °F   | 180°C / 356°F   | 125°C / 225°F   | ASTM D 93-85   |
| Viscosity, cps         | 160-250   | 20  | ASTM D 2196    |
| Mixing Ratio by Volume | 50-10 parts   | 1 part  |                |
| Storage / Shelf Life   | Unopened Containers Only at, 15-30°C / 58-85°F in dry, sun free indoors - 2 years | Unopened Containers Only at, 15-30°C / 58-85°F in dry, sun free indoors - 2 years |                |

| Reaction Times              |  |
|-----------------------------|--|
| Induction Time, 20°C / 68°F | 30 sec (10% 910 Accelerator added, Standard Concentration) |
| Gel Time, 20°C / 68°F       | 70 sec (10% 910 Accelerator added, Standard Concentration) |
| Induction Time, 20°C / 68°F | 15 sec (15% 910 Accelerator added, Standard Concentration) |
| Gel Time, 20°C / 68°F       | 50 sec (15% 910 Accelerator added, Standard Concentration) |
| Induction Time, 20°C / 68°F | 5 sec (25% 910 Accelerator added, Standard Concentration)  |
| Gel Time, 20°C / 68°F       | 30 sec (25% 910 Accelerator added, Standard Concentration) |

| Properties: Cured | Value   | Test Method |
|-------------------|---|-------------|
| Expansion, %      | 600-4000 (6-40 times) depending on Accelerator ratio % counter pressure |             |
| Elongation, %     | 10-20   | ASTM D 638  |
| Shrinkage, %      | <1%   | ASTM D1042  |
| Tensile Strength  | 65psi   | ASTM D 638  |

(physical properties may vary based on water & accelerator ratios & conditions during reaction)

| Item/Component         | Packaging    | Approx Shipping Weights | Qty / Pallet | Weight / Pallet |
|------------------------|--------------|-------------------------|--------------|-----------------|
| Aussie Grout 913       | 5 gal pail   | 50 lbs                  | 48           | 2,500 lbs       |
| Aussie Accelerator 910 | 0.5 gal pail | 5 lbs                   | 240          | 1,252 lbs       |

Availability of specific packaging sizes might vary based on market conditions and other factors.

For a complete list of details in CAD or PDF, please visit our website at [www.avmindustries.com](http://www.avmindustries.com).

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