

# RIGID GROUT

## Dual Component Hydrophobic Polyurethane Grout

### Product Overview

**RIGID GROUT** is a low-viscosity, dual-component, hydrophobic polyurethane grout designed to stabilize water-bearing soils and fill open voids. When **RIGID GROUT A** is combined with **RIGID GROUT B**, the mixture produces a strong, hard foam that expands to approximately 10 times its original volume. This expansive foam provides structural support and develops an adhesive bond to loose substrates, making it ideal for filling voids adjacent to concrete structures, foundations, and roadways where settlement has occurred. **RIGID GROUT** is solvent-free, non-toxic, and offers fast foaming and curing for efficient installation.



### Key Features

- **Expansive Foam:** Expands up to 10 times its original volume, providing strong structural support.
- **Adhesive Bonding:** Forms a durable bond with loose substrates such as soil, concrete, and rock.
- **Fast Curing:** Quick foaming and curing process allows for efficient installation, minimizing downtime.
- **Hydrophobic Properties:** Designed to repel water, making it effective in stabilizing water-bearing soils.
- **Solvent-Free and Non-Toxic:** Safe for use in a wide range of environments, without the presence of harmful solvents or volatile materials.
- **Versatile Use:** Ideal for filling voids under concrete slabs, roadways, and adjacent to foundations where settlement has occurred.

### Physical Properties of Uncured Materials

	RIGID GROUT A	RIGID GROUT B
<b>Colour</b>	Clear	Brown
<b>Physical State</b>	Liquid	Liquid
<b>Specific Gravity</b>	1.04 – 1.05	1.22 – 1.24
<b>Viscosity (25°C/77°F)</b>	185 – 235 cP	175 – 225 cP
<b>Shelf Life</b>	Up to 12 months	Up to 12 months
<b>Packaging</b>	Available in 17 kg pails	Available in 20 kg pails

### Physical Properties of Cured Materials

<b>Free-Rise Density</b>	5.5 – 6.5 lbs/ft <sup>3</sup>
<b>Compression Strength</b>	80 - 90 psi at 10% deformation
<b>Shrinkage by Volume</b>	0%

### Applications

**RIGID GROUT** is ideal for stabilizing water-bearing soils and filling open voids in a variety of situations. It is used for void filling beneath concrete slabs, foundations, and roadways to prevent settlement and provide structural support. The grout can also be applied for slab lifting, effectively restoring alignment by expanding to fill voids under sunken floors, slabs, and roadways. In culverts, tunnels, and underground chambers, **RIGID GROUT** fills voids adjacent to concrete structures. Additionally, it is used in foundation repair projects to provide stabilization where soil movement has caused structural issues. **RIGID GROUT** is suitable for infrastructure repair in municipal and heavy civil applications where soil stabilization is critical.

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### Application Guidelines

**Preparation:** Drill injection holes at an appropriate spacing depending on the specific site conditions. Ensure that the area is properly prepared for injection by removing debris and ensuring that the site is ready for the grout application.

**Application:** Wipe the resin containers to avoid contamination by moisture. Mix equal parts of **RIGID GROUT A** and **RIGID GROUT B** using a dual-component injection pump with a static mixer at the injection point. The material will expand and cure quickly, filling voids and providing structural support. Apply based on the water-bearing capacity of the soils and site-specific requirements.

**Clean Up:** Flush pumps, hoses, and injection accessories with **PUMP CLEANER** immediately after use.

### Related Equipment

Use with dual-component chemical grout injection pumps and static mixers.

### Limitations

- Reaction times can be affected by ambient temperature, which may impact the speed of curing.
- The presence of moisture can influence the density of the cured foam, leading to variations in the final result.

### Safety & Handling

Wipe resin containers to avoid contamination by moisture. Keep container closed when not pouring. Beware of pressure build-up in closed container. Follow all current regulations and standards. Wear suitable protective equipment to prevent skin or eye contamination. Ensure adequate ventilation and avoid breathing vapours. This material is intended for use by trained professionals with the proper equipment. Refer to the Safety Data Sheet (SDS) for detailed first aid information.

### Customer Service & Orders

For additional information, please call us at 1-800-663-6633 or email [info@multiurethanes.com](mailto:info@multiurethanes.com).

### Company Overview

Multiurethanes is a leading international supplier of materials, equipment, and technical support services for all types of grouting operations, including water cut-off, soil stabilization, concrete repair, sewer rehabilitation and waterproofing.