

# # 551 POLYURETHANE RIGID FOAM

## DESCRIPTION

*A two-part polyurethane injection material that produces a rigid, closed-cell foam. This hydrophobic grout product is used as an effective stabilizer in water-bearing soils and in void filling.*

### Manufacturer

CPR Products, Inc.  
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### Benefits

- Fast reaction
- Easy 1:1 mix ratio
- No shrinkage
- Expansion of up to 1000% by volume
- Very durable foam

### How to use

#### **Surface Preparation:**

Remove all grease, wax, curing compounds and other foreign matter from area to be filled.

## PROPERTIES OF # 551 POLYURETHANE RIGID FOAM

Mix Ratio	1:1 by volume	
Pot Life	1-2 minutes — 68 deg. F.	
<b>Uncured Properties</b>		
Viscosity	551 Grout	200-250 cps — 77 deg. F.
	Part B	175-225 cps — 77 deg. F. ASTM D4878
Color	551 Grout	clear
	Part B	brown
Spec. Gravity	551 Grout	1.04-1.05      ASTM D891
	Part B	1.22-1.24
Solids	100 percent	
<b>Cured Properties</b>		
Compressive Strength	80-90 at 10% deformation, psi ASTM D1621	
Shrinkage by volume	0 percent	
Free-rise foam density	6+/- 0.5 (0.096+/-0.008) lbs/ft <sup>3</sup> (g/cc) measurement	

### **Application Instructions:**

*Shake dual cartridge before use. Remove outer cap cover. Remove the tail plug from the top of each cartridge. Attach static mixer using locking nut. Using hand applicator, apply steady*

consistent flow into void or hole. Smooth grout overflow from crack or joint with a flat-bladed tool while grout is still pliable, if necessary.

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**Application:**

The temperature of the material and the temperature of the surface or soil into which the material is introduced control the speed of the reaction.

For many projects, the method of stabilizing the surrounding soil is simply drilling holes through the concrete and injecting the grout at predetermined intervals. Each individual situation requires thorough evaluation of how to best fill a void or add structure to the soil.

**Limitations/Precautions:**

Note that the temperature of the components will affect the reaction time. Hotter materials will decrease the reaction or working time, and colder materials will increase the reaction time.

Furthermore, pH and other job site factors present may affect the reaction time.

This grout contains reactive materials, which result in an exothermic reaction and has the potential to cause burns when in contact with skin.

Consider the following safety measures:

Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.

Do not eat, drink or smoke while in active contact with these materials.

Avoid skin contact.

Wash hands thoroughly with

For eye contact, flush eyes with water for at least 15 minutes and seek immediate medical attention. Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

**Cleaning Procedures:**

Excess grout material can be scraped off using a flat-bladed tool. This material can be disposed of in normal trash containers. Dispose of uncured waste materials in accordance with local, state or federal government regulations. Building and safety codes governing the use and disposal of material vary

**Packaging**

- 22.0 oz. dual cartridge packed 12 per case

**Storage**

# 551 Polyurethane Rigid Foam should be stored out of direct sun light in a cool, dry area. Protect from freezing, avoid extreme temperatures and store between 40 degrees F. to 100 degrees F. range. Keep container tightly closed when not in use. Do not reseal applicator contaminated by moisture. Open containers of material should be used quickly to avoid moisture contamination.

**Warranty**

All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct. CPR Products, Inc. warrants its products to be free of manufacturing defects and that at the time and/or place of shipment our material will meet current published physical properties when applied with ASTM and CPR Products, Inc. standards. CPR Products, Inc. liability is limited to the replacement of the material if found to be defective. As CPR Products, Inc. has no control of the use to which others may put its products, it is recommended the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect, engineer, contractor and the owner for the design, application and proper installation of each product. Nothing contained herein shall be construed to be a recommendation to use or as a license to operate under or to infringe any existing patents.

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