

# ChemGrout®

*"Equipment for Grouting Since 1969"*

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## Material Testing Results

**Date:** January 11, 2001

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General Polymers, Inc.  
14502 North Dale Mabry Hwy.  
Tampa, FL 33618

Phone: 813-968-9630  
Fax: 813-968-6055

Material: 1510 Permalith CE (Spray Mortar)

Dear Mr. Bob Johnson:

The following is the test report on the pumping characteristics of the 1510 Permalith CE as tested here at ChemGrout on November 5, 1999. We appreciate your confidence in our equipment and the opportunity to be of service.

**Conditions:** Outside Temperature 72 degrees F, Low humidity

**Equipment Used:** Model CG570/2TJ6/H  
Power Hydraulic (10 GPM, 2000 PSI)

**Mixing Water Temp:** 68 degrees F

**Batching Method:** Four 50 lbs. bags of the 1510 Permalith CE were mixed with 2.8 gallons of water. The mixer was rotating at 81 RPM.

**Observations:** The 1510 Permalith CE mixed quickly and thoroughly to a smooth, lump-free creamy consistency in 165 seconds.

**Pumping Method:** The finished batch was pumped and recirculated through a 1 1/4" x 25' grout hose for 10 minutes, then allowed to sit without movement for 5 minutes. Pumping was resumed without problems.

**Observations:** Mixed and pumped without too much difficulty. Pumping rate was 9.5 GPM. No discoloration or separation was observed. The material stayed in suspension, some separation of fibers was observed floating on sides of pump hopper.

**Results:** ChemGrout considers the 1510 Permalith CE product to be "excellent for mixing and pumping through the 2TJ6 pump.

Sincerely,

Joe Schatz

General-Polymers-1510 Permalith CE

ChemGrout, Inc.