



Self-Leveling Flow Test

TDS 235

The following flow test may be used to conduct field flow tests while installing LATICRETE® self-leveling products. When barrel mixing or pumping there are several critical job site factors that will affect the flowability of self-leveling products. Some factors that should be closely monitored include ambient air temperature, relative humidity, surface temperature, water temperature, powder temperature, length of pump hose, pump settings, condition of pump equipment, and other site conditions.

The installer must consider all jobsite conditions when considering adjusting the amount of water in the mix during installations. Overwatering self-leveling products will affect the performance and appearance. See product data sheet for mixing instructions and mix water range. Site conditions should be monitored and recorded along with flow results and jobsite conditions information.

Materials / Equipment needed:

- Flow Ring – There are 2 sizes which can be used.
 1. Large – Smooth PVC or stainless-steel tube measuring 4” length and 2” ID (102mm x 51mm ID)
 2. Small - Smooth, PVC or stainless-steel tube measuring 2” length and 1.25” ID (51mm x 32mm ID)
- Square Panel – 16”-18” (406 – 457mm) non-porous, smooth, and flat, ceramic tile, Plexiglas or glass panel
- Ruler or tape measure for measuring flow in inches.
- Clean container for collecting samples from mixing barrel or hose, large enough to fill Flow Ring.
- Timer capable of measuring minutes and seconds.
- Clean water for cleaning flow test kit and equipment.
- Sponge and cloth / paper towels for cleaning and drying flow test equipment.

Note: Sample container, panel and flow ring must be clean and dry prior to conducting each flow test. Using a sample container, panel, or flow ring that has mortar, water, residue, or any other substance stuck to it will influence the flow test results.

Procedure:

1. Place the clean, dry Square Panel on a level, stable surface.
2. Place a clean, dry Flow Ring in the center of the Square Panel.
3. Using a clean, dry container, retrieve blended self-leveling product sample from mixing barrel or end of hose then immediately fill Flow Ring completely to the top without overflowing. Confirm that none of the self-leveling product leaks out from the area where the Flow Ring is in contact with the square panel.
4. Record the time that the sample was collected on the Field Flow Test Report.
5. Simultaneously, start Timer and lift Flow Ring approximately 2-3 inches allowing self-leveling product to flow onto the Panel and form a circle shaped patty. If the patty shape is not circular discard sample and retest.
6. Allow the self-leveling product to spread undisturbed for 10 seconds.
7. Measure the diameter of the circular patty twice, once each in perpendicular direction.
8. Record the average of the two diameter measurements as Flow in inches or mm.
9. Completely clean and dry Flow Ring, Square Panel, and sample Container prior to conducting subsequent tests.

Field Flow Test Report

See LATICRETE® Self-Leveling Underlayment Data Sheet “Mixing” Section for Ideal Flow Range

Date		Your Name	
Your Company		Pump or Mixing Equipment Used	
Project Name		Project Address	
SLU Product		Control numbers	
Hose Length or Barrel Mix		Surface Temp	
Air Temp / RH		Dry Powder Temp	
Water Temp		Mixed Slurry Temp	
Other Jobsite Notes: 			

Circle Flow Ring Size Used Large 4"x2" Small 2"x1.25"

Flow Test Results

Time Sample Taken																		
Flow in Inches or mm																		

Time Sample Taken																		
Flow in Inches or mm																		

Time Sample Taken																		
Flow in Inches or mm																		

Technical Data Sheets are subject to change without notice. For latest revision, check our website at <https://laticrete.com>
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