NXT® Self-Leveling Flow Test Kit
TDS 235N

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

Although it is common practice to adjust the amount of mix water during application of self-leveling products it is **not** recommended to do so.

The installer must consider all jobsite conditions when 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: **NXT Flow Test Kit or.**

- Flow Ring – There are 2 sizes that can be used;
  - Smooth, non-corrosive PVC or stainless steel tube measuring 4” length and 2” internal diameter (102mm x 51mm ID) ± 1/16” (1.5mm)
  - Smooth, non-corrosive PVC or stainless steel tube measuring 2” length and 1.25” internal diameter (51mm x 32mm ID) ± 1/16” (1.5mm)
- 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 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 Applicable NXT® 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**	
NXT Product		**Control numbers**	
Hose Length or Barrel Mix		**Surface Temp**	
Air Temp / RH		**Dry Powder Temp**	
Water Temp		**Mixed Slurry Temp**	
Other Jobsite Notes:			

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																		

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