

SAE Inc. Standard No. 109

Flowability of Latex-Based Products

ABSTRACT

This test method is used to calculate the flow rate of SAE's uncured latex-based products in slurry form. The amount of product that flows through a funnel with a 1.5" diameter opening in one minute is measured and the flow rate is reported in grams per minute.

1. EQUIPMENT REQUIRED

- 1.1 Funnel with 1.5" diameter opening
- 1.2 Funnel stand
- 1.3 Timer
- 1.4 Electronic balance accurate to 0.005 kg

2. SAMPLE PREPARATION

- 2.1 Prepare the latex-based product for testing (i.e. ConduFlow, ConduDisc, etc.)
Note: If the curing agent has been added to the product the flowability must be measured immediately after addition of the curing agent.

3. TEST SETUP

- 3.1 Weigh an empty 5 US gallon pail on a scale accurate to +/- 0.005 kg and leave the pail on the scale.
- 3.2 Set up the funnel stand over the 5 US gallon pail on the scale.
- 3.3 Insert the stopper into the funnel opening and place the funnel on the funnel stand.

4. PROCEDURE

- 4.1 Pour the latex-based product into the funnel until the material is level with the top edge of the funnel.
- 4.2 Simultaneously start the timer and remove the stopper from the bottom of the funnel allowing the latex-based product to flow into the pail on the scale.
- 4.3 Allow the timer to run for one minute then replace the stopper in the bottom of the funnel.
- 4.4 Record the weight of latex-based product that flowed out of the funnel in one minute.
- 4.5 Report the flowability of the latex-based product in g/minute.

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