

ASTM Procedure C109-93 covers determination of the compressive strength of hydraulic cement mortars using 2 "(50 mm) cube specimens.

When evaluating the compressive strength of latex Portland cement mortars, ASTM C109-93 is performed with the following modifications:

1. Omit Paragraph 10.5
2. Revision of 10.5: Keep all test specimens, immediately after molding in the molds, on the base plates for 24 hours uncovered. Unmold after 24 hours and allow curing at room temperature until the desired test age.
3. Omit Paragraph 10.6
4. Revision of 10.6: Test the specimens within the permissible tolerance prescribed as follows:

Test Age	Permissible Tolerance
24 hr	+/- 1/2 hr
3 days	+/- 1 hr
7 days	+/- 3 hr
28 days	+/-12 hr

These procedures are modified to better represent the actual curing process a latex Portland cement mortar undergoes in the field. Latex mortars are specifically designed so that they do not require a moist or wet cure.

All compressive strength testing of latex Portland cement mortars should be done in accordance with the ASTM C109-93 (modified), as discussed above.

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