



Manual Vicat Apparatus

Standards

EN 196-3, EN 480-2, ASTM C191, AASHTO T131, EN 459-2, EN ISO 9597, GOST 310.3-76, GOST 31376-2008



ULTIMATE USER-FRIENDLINESS



LEADING DEPENDABILITY AND RELIABILITY



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Description

Introducing our [Manual Vicat Apparatus](#) – a pinnacle in cement and concrete testing. Precision-engineered for accurate setting time determinations, this device is your reliable partner for research, quality inspections, and compliance assessments in the realm of concrete formulation. Explore a new era of testing with confidence.

The commencement of concrete hardening is marked by the initial setting time, denoting the point at which the cement paste begins to solidify. On the other hand, the final setting time signifies the moment when the cement paste is suitably hardened, allowing the 1 mm needle to impact the material within the mold while the 5 mm needle remains ineffective.

In theoretical terms, the initial drying time of concrete, spanning from the addition of cement to water until a specific elapsed time, ensures that the 1 mm square cross-section needle cannot penetrate the cement paste within 5 mm to 7 mm from the bottom of Vicat's mold. The conclusive adjustment time, conversely, measures the duration between the introduction of cement and the point at which the 1 mm needle influences the material in the mold, rendering the 5 mm insert non-reactive.

The Vicat frame consists essentially of a metal stand with a sliding rod. An adjustable indicator moves over a graduated scale. The needle or plunger is attached to the bottom end of the rod to make up the test weight of 300 g.

The frame, VicatGen/M is supplied without accessories, which have to be ordered separately depending on the requirement. It is also proposed with basic EN accessories (NG-L028) or ASTM/AASHTO accessories (NG-L0028/A).



Automatic Vicat Apparatus Technical Specifications

Model	Manual Vicat Apparatus
Dimensions	5.9 x 7.5 x 12.52" / 15 x 19 x 31.8cm
Weight	6.6lbs / 3kg

Cement Setting Time Finding Procedure Required Manual Vicat Apparatus Specification

- Manual Vicat Apparatus
- Balance
- Measuring Roller
- Stopwatch
- Glass Dish
- Enamel Tray
- Trowel

* Request a [formal quotation](#) or send an e-mail to sales@nextgentest.com for the most up-to-date pricing and applicable discounts and incentives.