



1. General Description

The Vicát Apparatus is designed for determining the standard consistency and initial & final setting time of hydraulic cement in laboratory conditions.

2. Construction Details

Supporting Frame:

- Rigid metallic frame with a vertically guided, freely movable rod
- Precision-machined guide mechanism to ensure smooth vertical movement
- Locking arrangement to hold the rod at a desired position

Movable Rod:

- Centrally aligned and calibrated
- Designed to accommodate interchangeable needles/plungers (as per test requirement)
- Free-fall mechanism ensuring accurate penetration measurement

Vicat Mould:

- Shape: Frustum of a cone
- Internal Diameter at Base: $(80 \pm 5 \text{ mm}) / 70 \pm 5 \text{ mm}$
- Internal Diameter at Top: $(70 \pm 5 \text{ mm}) / 60 \text{ mm}$
- Height: 40 mm
- Manufactured from corrosion-resistant, non-absorbent material

Base Plate:

- Material: Glass
- Minimum Thickness: 2.5 mm
- Smooth, plane surface for accurate mould placement
- Ensures uniform support during testing

3. Applications

- Determination of standard consistency of cement paste
- Determination of initial setting time

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Determination of final setting time
- Quality control and research laboratories

4. Salient Features

- Robust and stable frame construction
- Precision-guided movable rod
- Standardized mould dimensions
- Easy assembly and cleaning
- Suitable for educational and industrial laboratories

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