SETTING TIME AND CONSISTENCY OF CEMENT

E050

Automatic recording penetrometer "Italcementi model" *

Used for determining the initial and final setting time of hydraulic binders.

This instrument automatically measures and records the time needed by a cement paste to reach a pre-established consistency degree.

The setting of the specimen is measured in static conditions; it is continuously and automatically recorded on a diagram allowing an accurate and uniform determination of the initial, intermediate and final hardening process.

The operator obtains a graph with the results of each tested specimen, accurately showing the progressive increasing of the consistency-time ratio (consistogram).

The instrument automatically cut-off at the end of the test.

* NOTE

This Penetrometer has been expressly manufactured on specific request of "Italcementi group" cement factory.

LOSS-ON-IGNITION OF CEMENT AND BUILDING LIME, AND CONTENT OF CHLORIDE, CARBON DIOXIDE AND ALKALI INTO THE CEMENT

STANDARDS: EN 196-2 / EN 196-2 I / EN 459-2

A muffle furnace is used to oxidize the sample in air at 975 \pm 25 °C. Technical details: see mod. A024, pag. 28 section Aggregates.



A024

E059 Funnel groove

CONSISTENCY OF GROUTS

STANDARDS: EN 13395-2 / UNI 8997

Used to determine the consistency of the expansion premixed cement mortars for anchorages, mixed with water, classified of super-fluid type. Supplied complete.

E059

Weight: 20 kg



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THE PENETROMETER IS SUPPLIED COMPLETE WITH:

• two penetration needles

• two plastic moulds dia. 70/80 h 40 mm complete with base and humidity hopper

two writing ink pens

• 100 recording diagrams

Power supply: 230V 1ph 50Hz 100W Dimensions: 450 x 185 x 370 mm

Weight: 22 kg



DETERMINATION OF THE FREE EXPANSION IN PLASTIC PERIOD.

E060-03

and of the exudation quantity of the mixing water on expansion premixed mortars for anchorages, mixed with water.

E060-01

STANDARDS: UNI 8996, 8998

The equipment consists of:

E060 Bridge of dual measure, formed by a steel square straightedge with two adjustable measure screws

E060-01 Fix caliper at two steps, having heights of 100 and 107 mm

E060-03 Metallic container dia. 99x120 mm with 3 hermetic covers

