

## SETTING TIME OF CONCRETE BY PENETRATION

STANDARDS: ASTM C403 | AASHTO T197 | UNI 7123

### C213 CONCRETE PENETROMETER

Used to determine the setting time of the mortar fraction in concrete mixes with slump greater than zero, by testing mortar sieved from mix. The apparatus consists of a spring penetrometer (capacity 100 kgf, precision 1 kgf) and six interchangeable stainless steel needle pointers of 16-32-65-160-325-650 mm<sup>2</sup> area. A sliding ring indicates the reached load on the handle of the penetrometer. Supplied complete with carrying case.

**Dimensions:** 450x160x70 mm

**Weight:** 5 kg approx.



C213

### C194 CONCRETE POCKET PENETROMETER

Used for the evaluation of the initial set of the concrete mortar. The penetration plunger has a tip area of 32 sq/mm. It is plunged into the mortar to a depth of 25.4 mm, indicated on the plunger. The resistance expressed in Kpa and Lbf/sq.in. is shown on the marked direct-reading scale.

**Dimensions:** Ø 25x210 mm

**Weight:** 400 g



C194

### C194-01 CONCRETE POCKET DIAL PENETROMETER

To evaluate the initial set of concrete and the effect of the retarders in the setting time.

The plunger has Ø ¼" (32.3 sq.mm.); the dial has dual scale: 0-700 p.s.i. and 0-50 kg/sq.cm.

Supplied complete with plastic case.

**Weight:** 300 g approx.



C194-01

### C211 JOISEL APPARATUS Ø 140X220 MM HIGH

STANDARD: LCPC French Method

Used to separate the various elements of the fresh concrete such as cement, sand, aggregates. All made of stainless steel.

**Weight:** 2 kg



C211

### C220 WATER TEST SET FOR CONCRETE MIXING WATER

STANDARDS: EN 1008 | EN 206 | DIN 4030

This kit, utilized to test the water mixing concrete, is composed by different dropping bottles, water-proof colors scales, test strips. It is suitable, to carry out more than 50 analysis of: total or momentaneous pH, magnesium, ammonium, chloride, sulphate, lime dissolving CO<sub>2</sub>, carbonate hardness, total hardness etc.

Contained in carrying cases.

**Weight:** 2 kg



C220

### C221 **NEW** LEACHING DEVICE FOR FIBER-REINFORCED CONCRETE

Thanks to high performance magnets, this device allows to separate the metallic fibres and determine their quantity in the concrete mix. Supplied without collecting basket.

**Dimensions:** 440x380x850 mm

**Weight:** 20 kg approx.



C221