



M023

PRESOMETER (AUTOMATIC VICAT)

EN 196/3, COMPOSITION EN, ASTM C191, BS 4550, DIN 1164, 1168, NF P15-414, P15-431, TESTS PLASTERS GIPS NBR NM 43, NBR 11581, NM 43, NBR 12128

Is used to study the setting time of hydraulic binders. It working is intermittent and it is fitted with a device for recording the penetration of the plunger into the paste. The traditional setting test of hydraulic binders is usually carried out with an instrument consisting of a simple arm that drivers a cylinder complete with Vicat needle and of a scale graduated on millimeters, on which the penetration value of the plunger into the binder is to be read. Due to the hand-operated working of that system, it is not always easy, during the test, to determine with precision the initial and final setting time. Imprecise measurements due to mixing defects, such as air pockets and so on, can often induce misinterpretations, thus making it difficult to distinguish the actual phenomenon from the apparent one.

The apparatus LBG is completely automatic and it has been purposely studied to ensure, together with an easier and immediate execution of the test, the elimination of the uncertainties related to the hand-operation, thus granting absolutely accuracy and reliable results.

The apparatus carries out the whole test automatically with no need of the operator's presence. The result obtained is recorded on chart paper. The chart clearly shows the course of the test and it allows the initial and final setting time to be determined with unambiguous accuracy.

The body, constructed from aluminum alloy, was designed to give the compact instrument that ensures that the strength in the most varied conditions of use. The limited size and shape make the instrument easily transportable. The ability to select a timing of the polls from 1 to 99 minutes and a time delay at the start programmable from 0 to 360 minutes.

The plate accepting the mould rotates automatically, thus allowing the needle to penetrate each time in a different position, at the previous distance and from edge mould in according at the standard selected before starting test.

On request, a device can be mounted for the continuous cleaning of the needle from the cement paste, so that the section of the needle does not vary and consequently neither do the test results.

The initial and final setting times are to be read on the chart, according to the number of penetrations and to their depth. At the end of the test the apparatus stops.

The supply included:

- N°1 probe of 300 g
- N°1 plastic mould
- N°1 glass made plate of 120 mm diameter
- N°1 writing holder
- N°1 pack of charts touch-sensitive (100 Pieces)
- Manual instructions

The accessories to effect all the tests have to be ordered separately.

TECHNICAL CHARACTERISTICS:

Keyboard with display LCD backlighthead 128x64 pixels		
Program for calibration needle height		
Selection languages: Italian, English, French, German and Spanish		
Plate support for basic crystal system with automatic centering		
System of automatic regulation of the pressure pen on the chart touch-sensible		
200 x 420 x 300 mm	Dimensions Width x Depth x Height	7.9 x 16.5 x 11.8 in.
11 kg	Weight	24 lbf
15V DC	Power Supply	
100-250V 1ph 43-63Hz + T	External Power Supply	

ACCESSORIES FOR TESTS ON PLASTERS GIPS

	M116-A100 MOULD In chromed brass.
	M116-A101 ALLOY PLUNGER 100 g
	M116-A102 CONIC NEEDLE

SPARE PARTS FOR TESTS ON PLASTERS GIPS

	M023-R102 GLASS MADE PLATE Used as a basis for support of container tapered trunk. Dimensions: 120x3 mm (Diameter x Thickness)
	M023-R103 WRITING HOLDER Pack of 5 pieces.
	M023-R104 CHARTS Box of 100 pieces.

ACCESSORIES

	M023-A100 NEEDLE DIAMETER 10 mm To test consistency.
	M023-A101 NEEDLE DIAMETER 1.13 mm For testing in according standards EN, BS, UNI, DIN, NF, UNE, NBR.

	M023-A102 NEEDLE DIAMETER 1 mm For testing in according standards ASTM, AASHTO.
	M023-A103 FINAL SETTING TIME NEEDLE For testing in according standards EN.
	M023-A104 CLEANING DEVICE FOR AUG
	M023-A105 PROBE FOR COMPOSITION OF TESTS
	M023-A106 ADDITIONAL WEIGHT 700 g For testing standards NF.
	M023-A107 PERMANENT MARKER Pack of 5 pieces.
	M023-A108 MARKER SUPPORT For testing standards NF.

SPARE PARTS

	M023-R100 MOULD For testing standards EN, BS, UNI, DIN, NF, UNE, NBR. Diameter 70-80 mm and Height 40 mm. Built in plastic.
	M023-R101 MOULD For testing standards ASTM-AASHTO. Diameter 60-70 mm and Height 40 mm. Built in plastic.
	M023-R102 GLASS MADE PLATE Used as a basis for support of container tapered trunk. Dimensions: 120x3 mm (Diameter x Thickness)
	M023-R103 WRITING HOLDER Pack of 5 pieces.
	M023-R104 CHARTS Box of 100 pieces.
	M023-R105 PROBE 300 g