

OPERATING INSTRUCTIONS **POCKET CONCRETE MORTAR PENETROMETER**

THE POCKET STYLE CONCRETE MORTAR PENETROMETER IS USED FOR QUICK EVALUATION OF THE "INITIAL SET" OF CONCRETE.

IT HAS BEEN ESTABLISHED THAT "INITIAL SET" OF CONCRETE IS REACHED WHEN THE PENETRATION RESISTANCE IS 500 PSI." INITIAL SET" IS THE SEMI-HARDENED, PARTIALLY HYDRATED CONDITION OF THE CONCRETE BEYOND WHICH IT CAN NO LONGER BE WORKED OR CONSOLIDATED BY VIBRATION.

THE PENETROMETER CAN ALSO BE USED ON LIGHT WEIGHT CONCRETE, SPECIAL ROOF MIXES AND TO TEST CONCRETE ADDITIVES.

THE SHAFT HAS A CROSS SECTION AREA OF 1/20 SQUARE INCH.

TEST PROCEDURE

1. HOLD THE SLEEVE OF THE PENETROMETER AND SLIDE THE INDICATOR RING TOWARDS THE SLEEVE UNTIL THE RING TOUCHES.
2. HOLDING THE SHAFT AT RIGHT ANGLES TO THE CONCRETE MORTAR SURFACE, FORCE THE SHAFT INTO THE MORTAR TO A DEPTH OF ONE INCH (SCRIBED ON THE SHAFT).
3. PULL OUT THE PENETROMETER AND TAKE THE READING ON THE SCALE AT THE LOW-READING EDGE OF THE INDICATOR RING.
4. BEFORE DOING ANOTHER TEST RETURN THE INDICATOR RING TO THE EDGE OF THE SLEEVE.
5. TAKE SEVERAL READINGS AND CALCULATE THE AVERAGE VALUE IN PSI.

NOTE:
KEEP THE SHAFT CLEAN BETWEEN TESTS AND WHEN NOT IN USE.