

(INACTIVE)
OHD L-34
**METHOD OF TEST FOR
DEPTH OF PENETRATION OF CONCRETE
BY PENETRATING WATER REPELLENT TREATMENT SOLUTIONS**

- I. **SCOPE.** This method covers the determination of the depth that a penetrating water repellent treatment solution penetrates Portland Cement concrete.
- II. **TEST SAMPLE.** One 8 x 8 x 2 inches (20 x 20 x 5 cm) concrete block cast under laboratory conditions. The concrete shall meet the requirements for Class "A" concrete as specified in Section 701 of the Standard Specifications except the coarse aggregate shall be #7 gradation. The block shall have a broom finish on one side. The block shall be cured for seven (7) days in accordance with AASHTO T 126.
- III. **PROCEDURE.**
- A. After curing, the block shall be oven dried at $230^{\circ} \pm 9^{\circ}$ F ($110^{\circ} \pm 5^{\circ}$ C) to constant weight. The block shall then be sealed with paraffin on five (5) sides, leaving the broom finished side exposed.
 - B. The broom finished side shall then be treated with the moisture proofer and retarder at the manufacturer's recommended application rate.
 - C. Cure the treated block in accordance with the manufacturer's recommendation.
 - D. Fracture the treated and cured block into four (4) sections, approximately 4 x 4 x 2 inches (10 x 10 x 5 cm).
 - E. Soak the sections in water for approximately one (1) minute to delineate the depth of penetration.
 - F. Measure the depth of penetration to the nearest 0.1 inch (2.5 mm) at ten (10) random locations using a depth gauge.
- IV. **REPORT.** Report the depth of penetration as the average of the ten (10) measurements.