

# Concrete - Non-destructive testing



## Corrosion Mapping System

ASTM C-876.

- ◆ Ideally suited for use on bridge decks, concrete piers and docks, highway slabs and parking garages.
- ◆ Complete system packaged in a convenient carrying case for easy transport to the field.

Half cell potential measurements serve as an important means of determining the probability of corrosion activity on the structure reinforcing steel. These measurements, which are related to the electrochemical nature of corrosion, allow an accurate survey to be performed in a short period of time.

Data from these surveys can be plotted to provide an easy to interpret graphic picture of the structure. From these plots, probable corrosion areas and the total area of the structure subject to corrosion can be determined.

The Corrosion Mapping System consists of all the necessary items required to perform this test in accordance with ASTM C-876 Testing Standard.

Specifications	
Half-Cell Type.	Drive unit, electronic measuring device, templates, measuring caps, gauge plates and carrying case.
Measurement Spacing.	Net 18 lbs. (8.5 kg).
Memory Capacity.	15,866 half-cell readings; 128 max. scans.
Power Supply.	Battery powered. Charger 90/250vAC, 50/60Hz, 1ø, AC (auto selectable).
Operating Temperature.	0 to 40°C.
Dimensions.	9.5" x 5.3" x 11" (240 x 135 x 280 mm).
Weight.	Net 64 lbs. (29 kg).

Probe and Power Loads; not included, order separately.

## Ordering Information

EI35-2165.



## Chloride Field Test System

- ◆ On-site results within 5 minutes.
- ◆ Low cost per sample compared to laboratory testing.
- ◆ Covers a range of 0.002% to 2% chloride by weight.
- ◆ Digital display for direct reading of lbs/cu. yd. and percentage of chloride by weight.

The Chloride Field Test System is designed for on-site testing of chloride content in concrete. The system measures the electrochemical reaction of a drilled powder sample of concrete in an extraction liquid. A direct, temperature compensated reading of the percent of chlorides is automatically displayed.

The system consists of a hand-held digital meter with combination electrode, 12 jars of extraction liquid, 5 jars of colored calibration liquid, electrode wetting agent and carrying case.

Specifications	
Meter.	Battery powered, high impedance electronic meter with temperature compensation circuits and microprocessor for direct conversion to percent of chloride.
Electrode.	Chloride combination type with externally mounted temperature sensor, cable and connectors.
Components.	12 jars (20 ml each) of extraction liquid, 5 jars of colored calibration liquid, 1 jar of wetting agent, spray bottle, collection pan and blower, clamping pliers, drill bit and anchors, scales and carrying case.
Weight.	Net 10 lbs. (5 kg).

## Ordering Information

EI35-2167.

