

# PosiTest<sup>®</sup> *AT*

## 50 mm C1583 Kit

Addendum to Instruction Manual v. 5



The **PosiTest *AT* 50 mm C1583 Kit** is designed to measure tensile strength of concrete surfaces and the bond strength or tensile strength of concrete repair and overlay materials by direct tension (Pull-Off Method), in accordance with ASTM C1583.

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The Measure of Quality

# Steps to Perform a Pull-Off Test

## 1 - Dolly & Surface Preparation

Ensure the steel dolly (disk) is clean and free of debris. Remove all surface contaminants and loose or deteriorated concrete from surface.

## 2 - Prepare Test Specimen

Using the included 50 mm diamond-impregnated core bit (barrel), drill a circular cut perpendicular to the surface. Per ASTM C1583 10.1, drill to a depth of at least 10 mm (0.5 inches). For tests of repair or overlay materials, drill to at least 10 mm (0.5 inches) below the concrete-overlay interface.



Measure the diameter of the test specimen in two directions at right angles to each other and record the average diameter, in accordance with ASTM C1583.

Remove any standing water and debris from the surface and allow to dry.

### 3 - Glue and Dolly Application

Attach the steel dolly to the test specimen using epoxy adhesive. Allow the adhesive to cure per the manufacturer's instructions taking care to ensure the adhesive does not enter the cut.

**NOTE:** *ASTM C1583 specifies an ASTM C881 Type IV, Grade 3 epoxy. While the included ResinLab epoxy is suitable for many applications, it does not meet this specific requirement.*

### 4 - Pull-Off Test

- a) Ensure the **PosiTest AT 50 mm C1583** stand-off is attached to the actuator.
- b) Conduct pull-off test in accordance with PosiTest AT instruction manual.



### 5 - Analysis of Test Result

Examine and report test results according to ASTM C1583.