

application note



Tensile Adhesive Strength

Admaterials Technologies Pte. Ltd.

How Proceq's instruments are trusted tools for Material Testing Laboratories worldwide

ASTM C1583 / C1583M. This specification covers standard test method for tensile strength of concrete surfaces and the bond strength or tensile strength of concrete repair and overlay materials by direct tension (pull-off method).

ASTM D4541-02. This test method covers a procedure for evaluating the pull-off strength (commonly referred to as adhesion) of a coating on rigid substrates such as metal, concrete or wood. The test determines either the greatest perpendicular force (in tension) that a surface area can bear before a plug of material is detached, or whether the surface remains intact at a prescribed force (pass/fail).

Application

Admaterials uses the Dyna Pull-Off Tester Z16 to determine the tensile adhesion (pull off) strength of waterproof membranes, mortars, tile adhesives and skim coats. The tensile adhesion reflects the adhesion of the applied coating to rigid substrates such as concrete. These tests are required by local authorities such as the Housing Development Board, as well as private consultants using the products.

Customer Quote

"Being light and compact, we find the Dyna Pull-Off Tester Z16 is extremely portable and easy to handle. Setting up the tester is simple and quick, and it is definitely a useful tool to have both in our laboratory and on site. Overall, the Z16 has met our performance requirements."

*Admaterials Technologies Pte Ltd.
- Proceq customer since 2009*

Profile

Customer

Admaterials Technologies Pte Ltd is an advanced materials testing laboratory providing testing, consultancy, and R&D on construction materials, ranging from building materials, coatings, polymer and plastic, to chemical and environmental materials. Customers include those from ASEAN, China and Hong Kong.

Employees

15 in Singapore

Requirements

- Onsite Pull-off testing of concrete adhesive material
- Fast Speed of measurement of Adhesive Strength and Tension Strength of Concrete and coating Bonding
- Checking of completed renovation/ repairs works
- Diagnosing damage to building structure

Proceq Product

Dyna Pull-Off Tester Z16

Benefits to the Customer

- Light weight and mobile for use in any location
- Powered by Hydraulic hand cranking drive
- Constant jerk-free load increase