



007 James Bond and Adhesion Tester

Measures bonding strength between two layers of material.

Applications:

Overlay testing during repair and rehabilitation

Features and Benefits

- Accurate bond strength of repair mortars, epoxy resin, laminates, overlays, and other coatings.
- Calibrated gauge with maximum load indicator.
- Viscose damping mechanism to protect against sudden load release.
- Adjustable alignment plate with built in leveling facility.
- Compact design.
- Easy to use.
- Conforms to BS-1881 #207, ASTM D-4541, ASTM C-1583, ISO 4624, EN 1542 Cen/TC 125, DIN 1048 Part 2.

007 James Bond Tester

Technical Specifications



007 James Bond Tester Standard Equipment

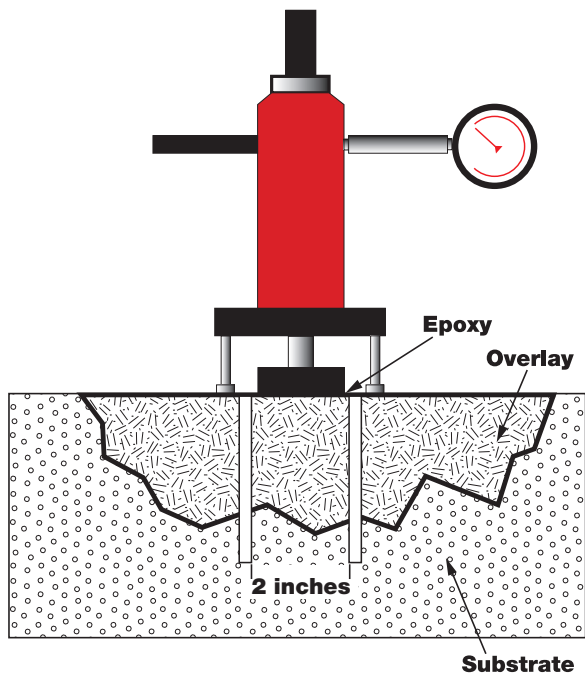


Diagram of system in operation

NDT JAMES INSTRUMENTS INC.
NON DESTRUCTIVE TESTING SYSTEMS

Technical

Adequate direct tensile strength between two layers is important if repairs to concrete structures or additional overlays on existing concrete are to be structurally sound. The 007 James Bond Tester involves bonding a circular steel disc to the surface by means of an epoxy resin adhesive. A controlled tensile force is then applied to the disc and failure will occur at the weakest point: either in the host material, or in the bond between overlay and host material. Knowing the surface area of the disc and the force applied at failure, the tensile strength of the host material or bond can be calculated.

Method

1. Using a coring bit for either 3 inches or 2 inches cores, make a notch or kerf in the material to be tested, drilling through the bond interface. This exactly defines the area to be tested.
2. Using a standard quick epoxy adhesive (not supplied with the kit) attach a steel disc on the defined test area.
3. Set the bond test alignment plate over the defined test area and level the plate by adjusting the legs.
4. Attach the Puller and turn the hand operated ratchet wrench until failure occurs.
5. The steel discs can be reused and cleaned using a suitable solvent.

Equipment

The 007 James Bond Test Kit consists of:

- Hand operated Puller.
- 5K + 25K calibrated gauge with maximum load indicator and viscose damping to protect against sudden load release.
- Adjustable alignment plate with built in leveling facility.
- Pull bolt with coupling.
- 10 three inch (75 mm) diameter steel discs.
- 10 two inch (50 mm) diameter steel discs.
- Carrying case.

Sales Numbers

P-C-7256	James Bond Test System
P-054-10987-006	75mm (3inch) Diameter Steel Discs
P-054-10987-007	50mm (2inch) Diameter Steel Discs