# Durability

### Slake Durability Apparatus

UTR-0800

The UTR-0800 Slake Durability Apparatus has been designed to examine how rocks deteriorate over a period of time, whilst being immersed in water.

Slake durability is a simulated weathering test to measure abrasion resistance during wetting and drying cycles of shale and similar soft rocks as used in embankments and other construction-related applications. First, samples are tumbled in mesh drums through a water medium, and then they are oven-dried for two cycles. The slake durability index is determined by the percent loss of mass once the test is completed.

The UTR-0800 includes a motorized drive unit which is fitted onto the base plate. The drive unit can rotate either two or four drums at 20 r.p.m. The tank assemblies are filled with water to 20 mm below the drum axis. The test drums are manufactured from 2.00 mm mesh and have the dimensions of 140 mm dia. x 100 mm long.

## Technical Specifications

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| **Dimensions** | 1300x150x450 mm |
| **Weight (approx.)** | 15 kg |

## About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

## Other Equipment

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclinometers, Extensometers, Tiltmeters, Load Cells and Dataloggers