

TORTUS 3

INTRODUCING THE LATEST WESSEX TEST EQUIPMENT
FLOOR FRICTION TESTER

SLIPS, TRIPS AND FALLS account for over half of all reported injuries, costing employers and organisations over £300 million pounds per year. The **HEALTH & SAFETY AT WORK ACT 1974** emphasises that all employers must take steps to control slip and trip risks in the workplace.

DO YOU HAVE A RISK MANAGEMENT POLICY TO IDENTIFY THESE PROBLEM AREAS?

The **TORTUS** measures directly the dynamic co-efficient of friction as it traverses a surface or flooring material to be used by pedestrians. The measurements recorded are **date/time stamped** and can be printed from an integral printer, or **downloaded as datafiles** onto a USB memory stick.



Applications

The **TORTUS** is established globally as an essential part of risk management policies in the following areas:

- Local authorities
- Shopping malls and supermarket chains
- Airports and train stations
- Banks and cruise liners
- Contract cleaning companies
- Fast food chains and restaurants
- Floor surface manufacturers
- Major international hotels
- International sports surfaces
- Petrol stations and prestige car showrooms

It is used in the following ways:

- Assessing floor safety
- Evaluation of floor cleaning materials
- Checking effectiveness of maintenance procedures
- Accident investigations
- Evidence for litigation purposes

The NEW **TORTUS 3** features many new benefits to the end user, including:

- USB memory stick for data retrieval
- Quick & simple calibration
- Easy to use LCD operator commands throughout operation
- Date/time stamp on printouts and datafiles
- Easy to operate, lighter and even more portable
- Integral lock for use whilst in transit
- Supplied complete with metal framed carrycase

Standards

Over the last 20 years, the **TORTUS** has become internationally recognised in the following standards as acceptable for dry testing:

- ISO 10547-17 draft European standard for the determination of coefficient of friction
- Australian and New Zealand standard AS/NZS 4663 2004
- Ceramic tile institute of America
- Italian single instrument standard

Cost savings result from protecting your staff and customers by achieving and maintaining correct floor safety standards, by:

- Reducing the working days lost through STF accidents
- Helping to prevent expensive damages claims
- Avoiding production stoppages



How does it work? Research has shown that the most dangerous type of slip occurs when the heel slides forward on making contact with the ground. The **TORTUS 3** simulates this condition, by reproducing the conditions under the heel during straight walking.

Scientific basis of measurement: a friction slider mounted on a leaf spring assembly is held in contact with the surface under a fixed load. As the instrument moves forward at a constant velocity, the friction force deflects the slider, and this is measured by a strain gauge attached to the spring assembly.

Specification
Overall dimensions (mm): 425 x 245 x 160 (inc. handle)
Overall weight: 6kg
Power requirement: 240v 50Hz or 110v 50/60Hz, 1ph, internal battery pack 12v DC (external charger)
Friction foot material: 4S rubber (standard shoe sole simulating, developed by the Rubber & Plastics Research Association UK).
The instrument is supplied with a hard carrycase, charger, USB memory stick (complete with electronic instruction manual)



Global Tortus Usage:

The **TORTUS** is used by organisations in the following countries:

- | | |
|-----------|-----------------|
| AUSTRALIA | MALAYSIA |
| BRAZIL | THE NETHERLANDS |
| CHINA | NEW ZEALAND |
| DENMARK | PORTUGAL |
| EIRE | SINGAPORE |
| FRANCE | SOUTH AFRICA |
| FINLAND | SWEDEN |
| GREECE | THAILAND |
| ITALY | TURKEY |
| JAPAN | UNITED KINGDOM |
| MALAYSIA | UNITED STATES |

Additional services:

Wessex Engineering offers the following services in conjunction with the **TORTUS 3**

- Instrument function check/servicing
- Consultancy
- Comprehensive training
- On-site testing
- Global support

