



TORONTECH



FIRE RETARDANT COATING TESTING EQUIPMENT

Fire Retardant Coating Testing Equipment

Fire retardant coatings — encompassing intumescent paints, passive fire protection systems, and fire-retardant treatments for timber, paper, and composite materials — play a critical role in limiting fire spread and protecting structural integrity in buildings and industrial facilities. The performance of these coatings under fire and under environmental stress must be rigorously verified through standardised laboratory testing before any product can achieve certification or regulatory approval.

The Torontech ToronFT™ Fire Retardant Coating Testing Equipment provides a comprehensive suite of 11 specialist apparatus covering all key performance dimensions of fire retardant coatings and treatments — from flame spread and fire resistance on steel and timber substrates to bond strength, chemical durability, and crack resistance. The range addresses multiple test methods and substrates, enabling coating manufacturers, testing laboratories, and certification bodies to conduct a full type-approval test program from a single, cohesive instrument platform aligned with ISO, EN, BS, and ASTM standards.

APPLICATIONS

Applications & Industries

The ToronFT™ Fire Retardant Coating Testing Equipment is used by organisations across the following sectors:

- Intumescent & Fire Retardant Coating Manufacturers: formulation R&D, QC testing, and multi-standard type-approval test programs for CE Marking, UL Listing, and national certification
- Passive Fire Protection System Suppliers: performance verification of spray-applied and board fire protection systems for structural steel
- Timber Treatment & Wood Product Manufacturers: fire retardant treatment qualification for structural and decorative timber applications
- Paper, Packaging & Cardboard Manufacturers: flammability and fire retardancy testing for treated packaging and display materials
- Third-Party Testing & Certification Laboratories: independent evaluation of coatings to EN 13501, BS 476, ASTM E84, and equivalent standards
- Building Products Certification Bodies: formal type-testing in support of fire classification and market approval programs
- Construction & Architectural Specifiers: product evaluation for complex fire engineering strategies requiring documented coating performance data

FEATURES

Why Choose the ToronFT™ Fire Retardant Coating Testing Equipment?

Our Advantage	What That Means for You
Multi-Substrate, Multi-Method Coverage	With apparatus spanning large-plate, small-chamber, tunnel, fire-tube, and wood-pile test methods, the ToronFT™ range evaluates fire retardant coatings across steel, timber, paper, and composite substrates — covering the full scope of type-approval test requirements from a single supplier.
Intumescent Char Performance Testing	Dedicated compressive strength and small-sample resistance furnace tests characterise the mechanical and insulating performance of intumescent char layers — critical data for structural fire protection design and coating classification.
Adhesion & Durability Verification	The Bond Strength (Pull-Out) Apparatus and Acid & Alkali Resistance Chamber confirm that coatings not only perform under fire conditions but also maintain long-term adhesion and chemical durability throughout their service life.

Our Advantage	What That Means for You
Standards-Aligned Test Methods	Apparatus are designed to address test requirements in ISO 834, EN 13501, BS 476, ASTM E84, UL 723, and equivalent national standards — enabling coating manufacturers to pursue certification across multiple markets from a single test facility.
Early-Stage Formulation Feedback	The Initial Drying Crack Resistance Tester and small-sample furnace provide rapid, cost-effective feedback during coating formulation development, reducing reliance on expensive full-scale fire tests early in the R&D cycle.
ToronFT™ Precision & Support	All apparatus are manufactured under Torontech's quality system, supplied with calibration documentation, and supported by applications engineers experienced in fire retardant coating test standards — from setup and specimen preparation through to test report interpretation.



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