

Why We Exist:

Passive fire protection has many advantages and countless applications in preserving asset values and critical infrastructure. However, if it contains or produces toxins fatal to humans, animals or marine life, then it is causing more problems and hidden costs than it is solving.

NoFire Technologies develops and manufactures the highest performance, nontoxic and environmentally safe passive fire protection coatings and systems using the most advanced technology available.



Providing the Optimal Solution in Passive Fire Protection

- A pioneer in water-base, intumescent technology, NoFire develops products for general applications and for client specific requirements
- High performance – tested to 1371°C (2500°F). NoFire has been tested to the most severe international standards and has numerous unique approvals including military and marine
- Contains no solvents, halogens or any other known toxins
- Developing high performance, nontoxic and cost-effective intumescent solutions is NoFire's sole mission



Protecting electric grids in the African bush

	EPOXY (2 PART)	SOLVENT	WATER BASE	nofire
TOXICITY / ENVIRONMENTAL HAZARD	HIGH	HIGH	LOW	NONE
CONTAINS HAZARDOUS INGREDIENTS	YES	YES	SOME	NO
SPECIAL EQUIPMENT REQUIRED	YES	YES	NO	NO
PERFORMANCE/MICRON OF COATING	HIGH	MODERATE	LOW	HIGH
TOTAL INSTALLED COST PER M ²	HIGH	HIGH	MEDIUM	LOW
MILITARY, COAST GUARD, IMO APPROVALS	NO	NO	NO	YES



Protecting US State Dept personnel and assets

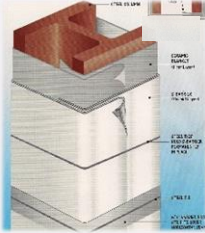
NoFire eliminates the disadvantages of:

- Hazardous, toxic, and environmental hazards of epoxy and solvent intumescent
- Substantially greater performance than typical water base intumescent



Protecting residential and commercial buildings

Structural steel protection for up to 4 hours without cracking, delamination and dangerous airborne fibers



Protecting the National Institute of Health

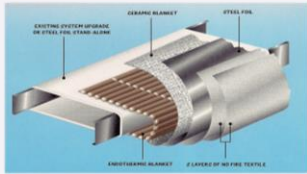


Passing the IMO's intense fire conditions and also their stringent requirements for human and marine life safety



Protecting worker camps ... and also the workers

Applied in essential infrastructure, not only in the plane, but also in airports.



Meeting the severe requirements of nuclear power installations



Providing fire protection for US Navy including in submarines requiring less than one part per billion in off-gassing

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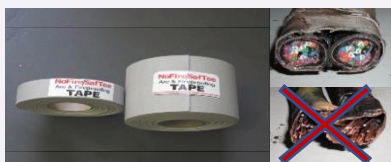


NoFire A-18™/ NoFire LP™ ¹ Commercial & industrial / Residential
NoFire A-18 Marine™ ² Formulated for severe marine requirements
NoFire A-18NV™ ³ Military-spec coating

¹ Exceeds ASTM, ISO standards for residential applications

² Tested by US Coast Guard, IMO, Germanischer Lloyd, Lloyds Register and ABS

³ US Navy QPL MIL-PRF-24596 Fire Protective for surface ships and submarines



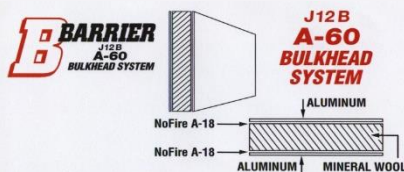
NoFire Saftee Tape™ High voltage arc and fireproofing tape

- Industrial grade fireproofing and arc-proofing of high voltage cables
- Nontoxic: no toxic gas production or visibility impairment of existing products
- Preserves data integrity in standard tests



NoFire A-Barrier™ Overhead fire protection system

- A lightweight system designed to protect overheads to the stringent IMO Class A60 rating.
- Tested by multiple maritime regulatory agencies



NoFire B-Barrier™ Bulkhead fire protection system

- A lightweight system designed to protect bulkheads to the stringent IMO Class A60 rating
- Tested by multiple maritime regulatory agencies



NoFire S-Barrier™ Structural steel fire protection system

- Low-cost, dry, easy to install and fireproofing system for structural steel
- UL 263 and ASTM E119 approved for 2 hours (up to 4 hours for certain section factors)
- Alternative to labor intensive and/or environmentally hazardous solutions for structural steel



NoFire VersaWrap™ Nuclear conduit/cable trays fire protection system

- Approved by US Nuclear Regulatory Commission
- Up to 3 hours fire protection of critical cables used for reactor shutdown in the event of fire
- Severe requirements: One of only three systems Approved by NRC
Lightest, least expensive, and easiest to install

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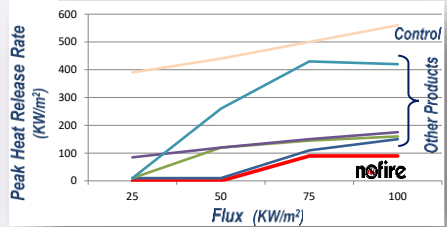


*Providing the Optimal Solution
in Passive Fire Protection*

What does it mean to be 'High Performance'?

- Meets Severe Performance Criteria for Residential, Commercial and Industrial Use
- Noncombustible Under Severe Testing Conditions
- Zero Flame Spread, Zero Smoke in Benchmark Testing
- Low Thermal Conductivity at High Temperature
- Low Heat Release Rate and Total Heat Release (See Calorimeter Benchmarking)
- Requires Low Coating thickness (DFT) to Achieve Performance

Calorimeter Benchmarking
(Substrate: glass/vinyl ester)



NoFire coatings and systems are widely tested, including some unique approvals ...

Standard Test Method for Surface Burning Characteristics of Building Materials	Zero Flame Spread, Zero Smoke	ASTM E84 (UL723)
Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source	Near Zero Heat Release Rate	ASTM E162
Fire Test Procedures for Surface Flammability of Bulkhead, Ceiling and Deck Finish Materials	Low Heat Release, Low Smoke, Nontoxic	IMO A.653 Part 5
Reaction to fire tests for products — Non-combustibility test	Noncombustible	ISO 1182
Standard Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter	No ignition < 100Kw/m ² Low Heat Release	ASTM E1354 (Cone Calorimeter)
Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials	Low Smoke	ASTM E662
Fire Tests of Building Construction and Materials	UL Certified for Structural Steel	UL 263, ASTM E119
Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth Reaction to fire tests — Room corner test for wall and ceiling lining products	Eliminated Flashover (RFlux < 20Kw/m ²)	NFPA 286 (UBC 8-2/17-5) ISO 9705
Performance Specification: Coating Compounds, Nonflaming, Fire-Protective	US Navy Resistance to Ignition	MIL PRF 24596 Fire Protective
Guidelines for the Application of Plastic Pipe on Ships	Exceeds IMO Requirements	IMO A.753
Recommendation of Fire Resistance Tests for "A," "B," and "F" Class Divisions	Exceeds IMO Requirements	IMO A.754

What does it mean to be 'Nontoxic' and 'Environmentally Safe'?

- Water Based. Contains No Solvents, Halogens, Asbestos or Any Other Hazardous Chemicals or Airborne Fibers
- Compliant With the Stringent Environmental Requirements of California, Europe (REACH) and the IMO
- Near Zero VOC's (2.2 g/liter); Less Than One Part Per Billion Off-Gassing in Dry State
- Near Zero Toxic Products of Activation or Combustion When Exposed to Fire
- Tested For Both Oral Inhalation and Ingestion

Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings	2.2 g/liter	EPA 24
US Navy Testing for US Submarines and Warships	< 1 part/billion off-gassing in dry state	Naval Environmental Health Center
Determination of the Toxicity Index of the Products of Combustion from Small Specimens of Materials	Ultra-low Toxic Products of Combustion	NES 713
University of Pittsburgh Smoke Toxicity Method for Assessing the Acute Inhalation Toxicity of Combustion Products	LC50 41.68g	Pittsburgh Protocol
Standard Test Method for Estimating Acute Oral Toxicity in Rats	LD50 > 5g/Kg; Zero mortality	ASTM E1163
Aircraft Material - Toxicity Test: Test method for toxic gas generation by materials on combustion	Passed	Boeing Safety Standard BSS 7239
Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)	Compliant	REACH
IMO Resolution: MSC 61(67) Fire Test Procedures, Part 2: Smoke and Toxicity test	Passed	MSC.61(67) FTP Code

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