



TEMPROTEX®

ADVANCED INSULATING AND FIRE SUPPRESSION COATING FOR COMBUSTIBLE SURFACES

PRODUCT DESCRIPTION

TEMPROTEX® FIER/F5E is a high-performance, water-based fire suppressant coating that enhances fire safety by preventing flammable materials like wood, plastics, and composites from burning. It provides superior fire and smoke protection, reduces core temperatures, and excels in heat insulation, vibration resistance, and waterproofing. TEMPROTEX® dries quickly, remains ductile, and is easily applied for top-tier passive fire protection.

TECHNICAL DATA

- **WATER BASED:** Non-hazardous, exterior grade.
- **LOWVOC:** >20g/L.
- **THINNER/ADDITIVES:** water.
- **VISCOSITY:** high viscosity.
- **COLOR:** Black.
- **PRIMERS:** Not required, for instances where a primer may be used contact WILLIWAW for more information.
- **TOPCOAT:** Not required, contact WILLIWAW with any topcoat's requirement questions.
- **SHEEN/FINISH:** Flat with slight texture.
- **DRUM SIZE:** 7.5L and 19L plastic pails.
- **STORAGE CONDITIONS:** Store in a secure, dry indoor area between 50°F and 95°F. Protect from freezing and extreme heat.
- **SHELF LIFE:** 18 Months from manufacture in original sealed containers under recommended storage conditions.
- **SAFETY:** Use appropriate protective clothing and comply with local health and safety regulations.
- **KEEP OUT OF REACH OF CHILDREN.**

MAINTENANCE

REPAIR OF INSTALLED FIE SYSTEM

Address any damage immediately. Repair any substrate damage before reapplying TEMPROTEX® FIER to the affected area at the originally specified thickness and application requirements. Reapply approved topcoats if necessary.



FEATURES

- Utilizes Smart Coatings® technology for liquid and vapor fire blocking properties.
- Offers revolutionary fire protection in extreme conditions.
- Intumescent technology reacts during flare-ups for extended protection times.
- Exceptional fire extinguishing performance on liquid fires.
- Excellent exterior performance and water resistance.
- Simple application by brush, roll, or airless spray.
- Fast-drying for same-day applications.
- Low VOC and water based.



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RANGE OF CURRENT APPLICATIONS

- **Fire Trucks and Bush Fire Response Vehicles:** Provides advanced combustible surface protection, enhancing durability and safety during emergency operations in high-risk environments.
- **Military and Police Vehicles:** Delivers robust fire risk reduction solutions, ensuring critical vehicle components and personnel are protected in combat and high-stress scenarios.
- **Bus and Truck Engine Bays:** Offers effective ignition barrier solutions that prevent engine fires, improving safety and reliability in commercial and public transport vehicles.
- **Race Industry:** Reduces fire risks for combustible components and car bodies, enhancing safety and performance in high-speed and high-pressure racing conditions.
- **Mining Trucks, Vehicles, and Machinery:** Implements ignition barrier solutions for combustible surfaces, significantly improving safety and operational reliability in hazardous mining environments.
- **Composite Materials:** Provides advanced ignition and thermal barrier solutions for a range of materials including GRP, HDPE, PE, fiberglass, carbon fiber, and other plastics and composites, ensuring enhanced protection and performance.
- **Concrete Surfaces:** Mitigates thermal shock to prevent early spoilage and maintain structural integrity during intense and rapid-fire scenarios, ensuring long-term durability. Provides adhesive strength to CMU block cement.
- **Thermal Insulation:** Enhances thermal insulation performance for composite materials, protecting structural integrity and minimizing damage during fire incidents, ensuring safety and longevity.

PRODUCT GALLERY



TESTING & APPROVALS

TEMPROTEX®: FIER/F5E:

- Exterior grade, weather resistant, flexible, and elastomeric.
- SFI 54.1 Approved fire extinguishing coating.
- Thermal Flame Barrier – SFI approved.
- Vapor Fire Performance SFI approved.
- ABYC 33.20.6 / Fuel Tank Fire Test – ISO 21487. –75ft Fixed Composite Fuel Cells
- ASTM weathering performance compliance (various).
- ASTM E 84 –0 Flame spread smoke. class A rated – [Nonflammable coating.] Complies to 18C 703.5.2 (composite materials)
- Australia and New Zealand wildfire approved-structures, wood, rocks, lumber, siding, etc.
- FIER is Noncombustible rated to 18C 703.5.2 (composite materials)

TEMPERATURE RE-COAT AND DRY TIMES

- Apply only if temperatures are above 50°F and won't drop below that within 2 hours. Avoid application if humidity exceeds 85%. Re-coat
- after 4 hours at 75°F with good airflow and humidity below 50%. Cooler temperatures or higher humidity will extend drying time.
- Do not apply in worsening conditions like dropping temperatures or potential condensation.

