

FIRE CAP™

ABSTRACT:



Targeted attacks on military convoys revealed a critical weakness in vehicle survivability. Fuel tanks exposed to the direct flame of a pool or tire fire could cause an explosion or eliminate the opportunity for a crew/vehicle evacuation from the danger zone. High Impact Technology developed the FireCap™ reactive intumescent system to provide critical time in the worst circumstances, protecting the vehicle crew, the fuel tank, and the battlefield mobility of the vehicle itself. A loaded fuel tank coated with Fire-Cap™ will withstand the direct flames of a JP-8 (diesel) pool fire for over ten minutes without increasing the internal tank temperature. Applied separately or in concert with the other subsystems of the BattleReady™ Tank, FireCap™ adds to the already formidable defenses against catastrophic explosions, punctures, leaks, fires and breaches provided by the High Impact Technology family of innovative battlefield solutions.

SYSTEM DESCRIPTION:

The FireCap™ system is an intumescent coating applied to the exterior of a fuel tank or vessel. When exposed to direct flame, the reactive layer will grow in thickness by producing a carbonaceous char, thus providing critical distance and time between fire and fuel.

TECHNOLOGY READINESS:

The FireCap™ system has been fully tested and characterized at Oregon Ballistics Laboratories. This technology is ready for government certification and immediate production. Each prototype will undergo additional testing based on fit, form and function, per vehicle platform and specification.

APPLICATION:

FireCap™ can be applied via spray at the OEM level to new tanks or for retrofit efforts at the equivalent of a Level 2 motor pool facility. FireCap™ can also be applied by hand for field repairs in circumstances that do not allow otherwise.



KEY ATTRIBUTES:

- Reactive thermal protection from direct extreme heat sources
- Applicable to both metal and plastic surfaces
- Provides superior corrosion and abrasion protection
- Tenacious adhesion for long-term service
- Available in various colors
- CARC paintable

For Purchasing or questions about this product contact us at:

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