SELF SEALING / HEALING TECHNOLOGY
APPLICABLE TO METAL AND PLASTIC
CORROSION AND ABRASION PROTECTION
CARC PAINTABLE

ABSTRACT
High Impact Technology's BattleJacket® Fuel Cell Containment System (FCCS) is a revolutionary technology designed to minimize or prevent leakage of fuel tankers due to small-arms fire, which can cause hazardous conditions for troops transporting fuel as well as operational risks caused by the resulting lack of fuel.

KEY ATTRIBUTES
Reactive thermal protection from persistent extreme heat source. 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
TECHNICAL SPECIFICATIONS

BATTLEJACKET® - HIGH IMPACT TECHNOLOGY, LLC

COMPONENT

BattleJacket® technology was developed by testing multiple elastomeric spray coating formulations for ballistic performance and selecting the best performer. The BattleJacket® (FCCS) coating is based on a specially formulated fire resistant urethane similar to the Rhino Linings USA (Rhino) spray-in bed liner modified for military applications. A special swellable super absorbent polymer was selected to be used as the basis of the self-sealing mechanism. These beads are spray encapsulated into a special layer which, when exposed to fuel, swell into a solid. This additive acts in conjunction with the urethane to tightly seal off the undesired entrance and exit holes created by a projectile.

APPLICATION

A specialized process was developed which requires a closed-in spray booth with unique equipment to apply the additive. A Mobile spray-application facility has been developed which brings the process to any location.

TECHNOLOGY

TACOM / TARDEC witnessed early generations of the spray coating, and after further development / refinements by HIT, ended up testing and approving it for use in theater. The US military designation for this spray coating technology is called Fuel Tank Self-Sealing (FTSS®).

DATA SPECS

- **350% ELONGATION**
- **TENSIILE STRENGTH - 2800 PSI**
- **FLEXURAL MODULUS - 6000 PSI**
- **HARDNESS, SHORE A - 85**
- **OPERATIONAL TEMPERATURE RANGE: -40 TO 180 DEG. F.**
- **< 1% SHRINKAGE**

HIT

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