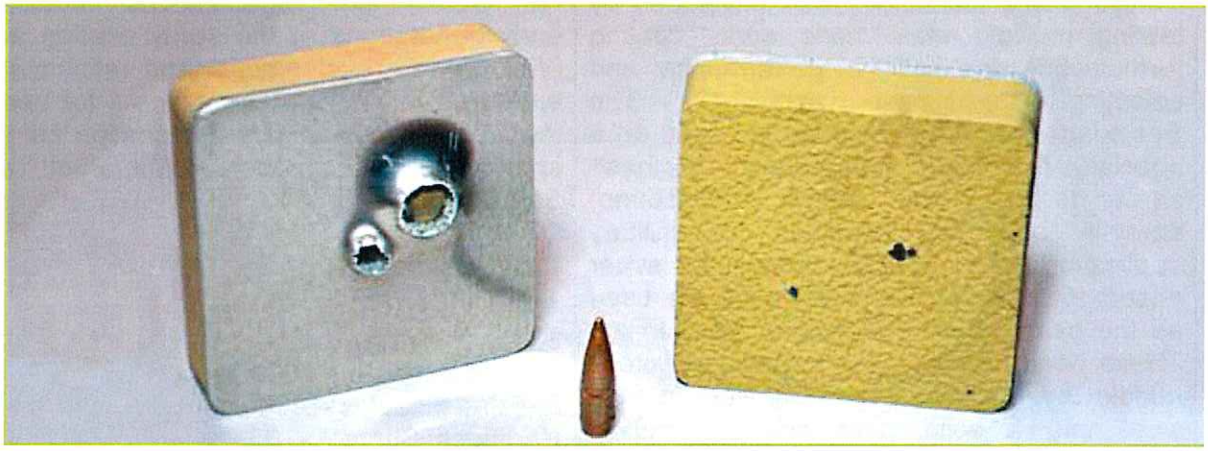
BattleJacket™

CLASSIC | EXTREME CONDITIONS | AERO



SELF SEALING / HEALING TECHNOLOGY

STRONG BONDING WITH METAL AND PLASTIC

CORROSION AND ABRASION PROTECTION

CARC PAINTABLE

SECONDARY CONTAINMENT

ABSTRACT

The BattleJacket® Fuel Cell Containment System (FCCS) is a revolutionary technology designed to minimise or prevent leakage from fuel tanks when subjected 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

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 middle layer which, when exposed to fuel, swell into a solid. This additive acts in conjunction with the top and bottom urethane layers to tightly seal off the entrance and exit holes created by a projectile

APPLICATION

A specialised 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 can bring the process to most locations.

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TECHNOLOGY

US Government organisations witnessed early generations of the spray coating and, after further development and refinements, ended up testing and approving it for use in theatre. The US military designation for this spray coating technology is the Fuel Tank Self-Sealing (FTSS®).

DATA SPECS

350% elongation
Tensile Strength – 2800 psi
Flexural Modulus – 6000 psi
Hardness, Shore A – 85
Operational Temperature Range: -40 to 180 deg. F.
< 1% shrinkage

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