



ARM-R-COAT™ Self-Sealing Fuel Tank Coating

ARM-R-COAT™ by Aircraft Rubber Manufacturing (ARM-USA) is a proprietary fuel tank coating designed to seal a fuel tank after it has been penetrated by a ballistic projectile. Applying ARM-R-COAT™ to a tank can allow a security vehicle, military personnel carrier or aircraft to continue operating after its fuel tank has been punctured, allowing the vehicle’s occupants to safely complete the mission or exit a high-risk situation.

ARM-R-COAT™ protects and seals the fuel tank in two, distinct and complimentary phases. First, ARM-R-COAT™ uses a proprietary elastomeric component that is rubber like in nature. When a projectile penetrates the coating, the elastomeric compound “opens”, allowing the projectile to pass through and then “closes” around the resulting hole. Test results and high-speed video have shown that in many instances this elastomeric healing process is sufficient to prevent any fuel losses from the tank.

In the event that the hole in the fuel tank is too large to be addressed by ARM-R-COAT’s first sealing mechanism, the second, active sealing phase kicks in. ARM-R-COAT™ has been designed with proprietary materials that react with hydrocarbon fuels. The reaction causes the ARM-R-COAT™ coating around the hole to swell thereby “healing” the wound in the fuel cell wall and stopping all leakage.

ARM-R-COAT™ is available in four levels of protection depending on the threat level:

ARM-R-COAT™				
Level	Seals Against	Applicable Standard	Weight sq / ft	Coating Thickness
I	9 mm / .357 mag	NIJ Level II	1.12 lbs	.200 inches
II	7.62 mm / .308 cal	NIJ Level III	1.80 lbs	.325 inches
III	12.7 mm / .50 cal	**STANAG Level III+	2.50 lbs	.450 inches
IV	14.5 mm / .50 cal FSP	**STANAG Level IV	3.20 lbs	.575 inches
** Pending independent test results				

Aircraft Rubber Manufacturing (ARM-USA) is an ISO 9001 certified manufacturer of composite fuel containment systems and has been in business for more than 30 years. We are experts in the design and manufacture of complex fuel delivery systems. ARM-USA’s racing fuel cell division, Fuel Safe Systems®, designs and manufactures crash worthy fuel cells for NASCAR, IndyCar, American Le Mans, and many other forms of professional racing. Our state of the art 100,000 square foot manufacturing facility houses all of our design, development and manufacturing divisions. In-house capabilities include CAD design & 3D modeling, precision sheet metal fabrication, machining, mil spec welding, armored & self-sealing fuel cells, rotational molding, and rubber goods manufacturing. Please call one of sales representatives today for more information about our ARM-R-COAT™ product or any of our fuel containment solutions.

Aircraft Rubber Manufacturing Inc.
 dba Fuel Safe
 1550 NW Kingwood Avenue
 Redmond, OR 97756-8405
 Phone: (541) 923-6005 * Fax: (541) 923-6015