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Envelop Introducing Covers For The Air Defense Artillery Community

For more than four years now, Envelop Protective Covers have been protecting our country's field artillery assets with phenomenal results. Envelop Protective Covers have become synonymous with corrosion prevention and reduced maintenance costs for units that use them. Nearly every field artillery brigade in the Army and regiment in the Marine Corps use Envelop to help protect their high value

assets. The ADA (Air Defense Artillery) community can now expect the same type of protection from our new ADA specific line of Envelop Protective Covers.

Anybody familiar with ADA assets understands the highly technical and costly equipment needed to complete the mission. Because of the complexity and maintenance intensive nature of this equipment, anything that can be done to extend the lifecycle and improve the equipment readiness of a unit is a no-brainer for many commanders. That is why units from across the country are already experiencing the benefits of using this line of covers in their battle with the single highest preventable cost in the military today: corro-

sion. Envelop now offers a growing list of ADA specific equipment that can be procured, either through DLA (items with an NSN) or through GSA. A full list of our current designs with part numbers and/or NSN's is shown below:

Avenger Battalions

- Avenger Launcher- part # 123171, NSN- 1450-01-581-5091
- Sentinel Radar- part # 123172, NSN- 1450-01-579-2356
- Sentinel Generator- part # 123170, NSN- 1450-01-579-2351

Patriot Battalions

- Patriot Missile Container- part # 123050
- A-N MPQ 53-65 Patriot Missile Radar- *In development*

Additional items

- Phalanx Centurion CRAM- part # 123105
- A-N MPQ 36 counter mortar radar- *In development*

For more information regarding any of these items or for a free demonstration at your unit please contact Andy Parks or Philip Simoes.



Avenger Launcher—Part Number 123171, NSN 1450-01-581-5091

In December 2009 Shield Technologies Corporation delivered four sets of covers to US Navy ships in Norfolk, Virginia as part of NAVSEA-21's evaluation of Envelop Covers. A total of over 200 topside covers were delivered to two Destroyers, a Cruiser and Frigate for their extended evaluation.

SEA-21 is using the evaluation to determine the long term effects of reducing corrosion related maintenance costs. During the past five years ships have purchased Envelop covers using their limited unit funds, often competing with other much needed consumable items. At the conclusion of the evaluation SEA-21 will make the determination if the use of the Envelop Covers warrants their purchase using maintenance and outfitting funds.

The initial delivery of covers was completed by a team consisting of members of the Navy's Navy's Surface Ship Lifecycle Maintenance Activity (SSLCM) and

representatives from Shield Technologies. The condition of the equipment to be covered was documented during the delivery, and training was provided to crew members on the proper use of the covers. During the evaluation period representatives of SSLCM will be visiting the ships to assist with crew questions, and ensure consistent cover use. The final evaluation of the equipment condition and cover performance is expected to be accomplished during the ships upcoming INSURV periods.

A recent e-mail from a BMC on a deployed DDG reports; "As we are currently approaching our sixth month at sea with the Envelop Covers, I must say they have held up through the weather. Our sliding pad eyes have no rust and are in great looking condition. I am very impressed with the results. Once the areas were preserved correctly the cover has kept it looking great. The same applies for Weapons and the covers

Continued Success in SSLCM Envelop Cover Evaluations

for the 50 cal. I thank you for introducing the covers to the Navy."

Positive feedback from the two deployed ships and the two locally operating ships indicates that the Envelop Protective Covers are performing as expected and meeting the high demands and requirements placed upon them.



CIWS OGB— Part Number 113075, NSN 2040-01-564-3299
CIWS PTI— Part Number 113094

Army National Guard Units Continue To Purchase Envelop Protective Covers



UH-60 A/L Cockpit/Chin Bubble—Part Number 122038

Army National Guard units in Alaska, Massachusetts, Wisconsin, and two separate locations in Iowa have all recently purchased Envelop Protective Covers for their UH-60 helicopters. In January the ARNG in Westfield, Massachusetts purchased three additional UH-60M Stabilator covers and in June units in both Waterloo and Boone, Iowa purchased the UH-60A/L Stabilator cover. This was the second purchase for the unit in Boone. This year the unit in West Bend, Wisconsin made their second and third purchases of Envelop covers. In March they purchased the UH-60A/L Cockpit Chin Bubble covers, and in June they purchased the Main Rotor Head and Tail Rotor Head covers. Also in June, the unit at Fort Richardson, Alaska was visited by Mark Bechtel (Shield Technologies' Aviation Team Leader) who demonstrated the proper procedures for installation, removal, and care of their new UH-60A/L Cockpit/Chin Bubble and Stabilator covers. These covers are all listed in the GSA catalog. You can contact Mark Bechtel for a complete GSA price list and contract information.

Two Envelop Covers Receive NSN's

In May the Apache Program Manager's Office provided Shield Technologies Corporation with NSN 1730-01-583-5697 for the AH-64D MTADS Envelop cover, part number 122110. The Apache PM has purchased 660 of these covers over the last two years. This is the first NSN assigned to an Envelop Army Aviation cover. The entire line of Army Aviation covers is listed in the GSA catalog (contract: GS-07F-93865).



In February the Tank and Automotive Command (TACOM) sponsored the assignment of a NSN number to the M1117 Gunship ASV Envelop Protective storage cover. The NSN is 2540-01-581-9556; Shield Technologies part number is 123166. Most recently

the 287th MP Company of the New Hampshire National Guard purchased these covers for their M1117 ASV Gunships. The entire line of Armored Vehicle covers is listed in the GSA catalog (contract GS-07F-93865).

For Maximum Performance From Envelop Covers Follow These Hints

Envelop Protective Covers are easy to use. They require more effort to install on larger weapons, but no cover takes more than three crew members and ten minutes once that crew becomes familiar with the installation process. To maximize the effectiveness of Envelop Protective Covers remember the following:

- NEVER EXPOSE THE BLACK INSIDE OF ANY ENVELOP COVER TO A WATER SOURCE, such as a hose, wet pavement, rain, or snow.
- The most effective way to dry the cover that has been exposed to a water source is to leave it installed and let the moisture evaporate out of the cover. Avoid this by carefully storing the cover.
- The exterior of the cover can be cleaned with soap and water.
- Clean any grease off the inside of the cover with Isopropyl Alcohol (rubbing alcohol).
- Do not put any grease or other POL on areas where the inside of the cover directly contacts the metal, such as the outside of a howitzer tube.
- Store the cover in the mesh storage bag provided when not in use.

Shield Technologies Has The Artillery Covered

The recent finalization of the cover design for the M270A1 MLRS completes the set. There is now an Envelop cover available for every artillery weapon system in the U.S. Military. Over 1000 artillery weapons are now protected by these technologically advanced covers. Envelop Protective Covers are available for the following systems:

- 155mm: M109A6 (Paladin), M777, M198, FAASV
- 105mm: M119 Family, M101A1
- Rocket/Missile Systems: HIMARS, MLRS, USMC HIMARS Resupply Crane

Despite this milestone, the job is incomplete. Feedback from users is constantly sought out, evaluated, and implemented. In just this last year, user feedback has resulted in modifications and improvements to the M777, M109A6, M198, and HIMARS covers. All covers were designed in conjunction with the crews who maintain and operate these crucial systems. All designs go through several iterations and crew remarks are carefully considered. Shield Technologies staff members often visit units who have been outfitted with Envelop Protective Covers to get feedback. Users with questions or feedback can contact Shield via email at www.envelopcovers.com, or speak directly with the Ground Team Leader, Phil Simoes.



M109A6 Paladin– Part Number 123063



M777 LW 155– Part Number 123007, NSN 1095-01-551-1284, 1095-01-551-1290, 1095-01-551-1294

Envelop Protects Critical Subsea Parts For Oil And Gas Industry

Envelop covers have been used extensively throughout the oil and gas industry. Most recently they were selected to protect numerous subsea jumpers that are being staged for several months in a seaside environment. The multi-million dollar pieces of equipment extend between components, structures, and flow lines to safely and effectively integrate parts of a subsea well system on deepwater platforms.

These jumpers are large custom fabricated pieces of equipment that are made on site and have to wait to be installed until the well is ready. Proper maintenance of the jumpers and mounted sensors is paramount for efficient installation and operation of the equipment. Envelop Protective Covers provide complete protection for these assets.

The Vapor Corrosion Inhibitors and breathable layers incorporated in the cover virtually eliminate corrosion, while the outer layers of the cover provide complete protection from the damaging effects of UV rays and use a gasket to keep out any rain or salt water. The ease of installation of the covers allows for the crews to easily perform service and routine maintenance on the jumpers.

After a short period of time the effectiveness of the covers became very apparent. The company was so impressed with the performance of Envelop Protective Covers that they had several different custom covers designed to protect various other pieces of equipment.



8" FSM Jumper– Part Number 221402

New HH-60M Blackhawk Covers Fielded



HH-60M Full Cockpit/Nose & FLIR– Part Number 122047, External Rescue Hoist– Part Number 122044, UH-60 Pitot Tube– Part Number 122042, HH-60M ECS Intake Plug 122048

In May 2010 units from the Massachusetts and Vermont Army National Guard each received six sets of Envelop Protective Covers for their HH-60M (MEDEVAC) helicopters. These custom made covers are designed around the unique MEDEVAC mission equipment of the HH-60M and provide the same unparalleled protection as the

Fort Bragg, NC will receive 15 sets for their aircraft in August. In just over a year Shield Technologies Corporation will have delivered 123 UH/HH-60M Envelop Protective Covers sets to eight different Active Duty and Army National Guard units.

traditional UH-60M covers. The Utility Program Manager provided Envelop's new cover set to these units which are deploying later this year. Each set consists of covers for the Cockpit/ Nose with FLIR, Dash/Center Console, Pitot Tube, Stabilator, External Rescue Hoist, CMWS (Common Missile Warning System) Chaff/Flare Dispenser, and an ECS Intake plug. Charlie Company (MEDEVAC) 3-82nd GSAB at



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Envelop Procurement Options

The end of FY10 is fast approaching. Throughout DoD, units identify opportunities to procure items which produce a positive return using End of Year or "Sweep-up" funding. Envelop® Protective Covers are easily procured from Shield Technologies Corporation either directly or via the Defense Logistics Agency. Shield Technologies Corporation is the exclusive global producer of Envelop Protective Covers. Four basic procurement options are available. (1) Envelop Covers with NSNs assigned can be easily ordered via normal DLA channels. (2) Shield Technologies Corporation holds GSA contract number

GS-07F-9386S. Units can utilize the GSA web based ordering process to place orders. (3) Shield Technologies accepts government credit card purchases up to the authorized limit of the card holder. (4) Units with contracting officer support can place requisitions, which their contracting officers can solicit and purchase covers directly from Shield Technologies in accordance with FAR procedures.

Option (1) is the most simple procurement method, however, the cost to the unit will be higher due to DLA overhead mark up, and delivery schedule can be more difficult to determine. Options (2) & (3) will provide a lower cost to the customer and Shield Technologies can provide delivery forecast, often shipping the same day for items carried in inventory. Option (4) will also provide a lower cost. Delivery time is subject to the amount of time to meet FAR requirements and award the contract.

Questions regarding procurement of Envelop Protective Covers should be addressed to your support representative (listed on the back of the newsletter). If necessary, contact Shield Technologies directly at our Eagan based operations headquarters. Shield Technologies takes pride in providing high levels of support for all customers.



Torpedo Tube– Part Number 113056, NSN 2090-01-519-5600