



Battlefield operations often call for the ability to remain unobserved by the enemy for as long as possible. Unfortunately, vehicles travelling within the battle terrain are difficult to conceal. Standard camouflage exists of course to make the visual sighting of a light armoured vehicle or tank as difficult as possible and will serve to break up the vehicle's outline against a suitable background. However, with modern thermal imagers and surveillance radars, you still run the significant risk of being spotted and subsequently being lined up in the weapon sights of an enemy gunner.

The French DGA looked to MBDA to provide a cost effective solution to this battlefield problem, a passive solution that would reduce a vehicle's signature in three different domains – visual, infrared (I, II and III bands) and microwave (the radar domain between 4 – 100 GHz).

After analysing and testing various COTS (Commercial Off The Shelf) fabrics and coating materials, MBDA was able to develop the MULTISORB ® vehicle stealth kit. The kit is already being deployed in the field with the French Army's Souvim 2 mine clearance vehicles.

MULTISORB ® is a lightweight and extremely durable 3D-structured synthetic fabric made from an outer ventilated layer applied onto a conductive mesh and then mounted onto a foam base. The 3D form of the outer structure provides traditional visual colour and

outline camouflage. However the properties of the three materials combined, serve to significantly limit the heat emitted by the vehicle as well as reducing the radar signature. Even without the heat emitted by its engine, a vehicle at rest in the sun will heat up and be easily picked up by a thermal imager. MULTISORB ® isolates the protected vehicle from the sun's rays making the heat signal all but imperceptible. MBDA has put the kit through the most rigorous of field tests, not only to prove its stealth-providing properties but also to ensure that it is able to withstand the most aggressive environments and treatment.

MULTISORB ® is available in different versions and camouflage colours depending on specifications and operational requirements.

- **Provides a high level of stealth against visual, IR and radar observation**
- **Suitable for a wide range of vehicles and other applications**
- **Cut to size and shape by MBDA for retrofitting**
- **Lightweight**
- **Robust**
- **Foliage, sand, snow and other camouflage options**
- **Low cost**

MULTISORB® VEHICLE STEALTH KIT

MBDA
MISSILE SYSTEMS



LAND

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Applications

MULTISORB ® is extremely versatile and suitable for a wide range of vehicles ranging from 4x4s to battle tanks. The kit does not impinge on the ERA properties of modern battle armour. It will also provide the same stealth properties for battlefield installations such as shelters, machine gun posts, sniper hideouts as well as FIACs (Fast Inshore Attack Craft) used by special forces carrying out commando style shore attacks or secret landings.

MULTISORB ® is a registered trade mark of MBDA and is protected by international patents

Name

- **MULTISORB®**

Material characteristics*

- **Weight: 1.5 – 3.0 kg / m²**
- **Thickness: 5 – 10 cm**

* depending on specifications

Visual Observation

Close (c.20m)



At distance (c.100m)



IR Observation

Without MULTISORB ®

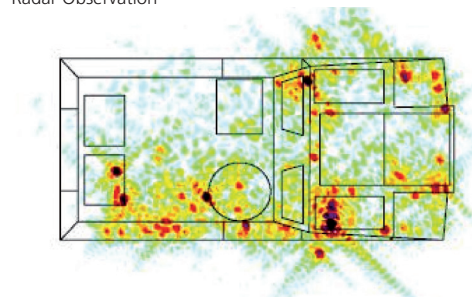


With MULTISORB ®



Radar Observation

Radar Observation



With MULTISORB ®

