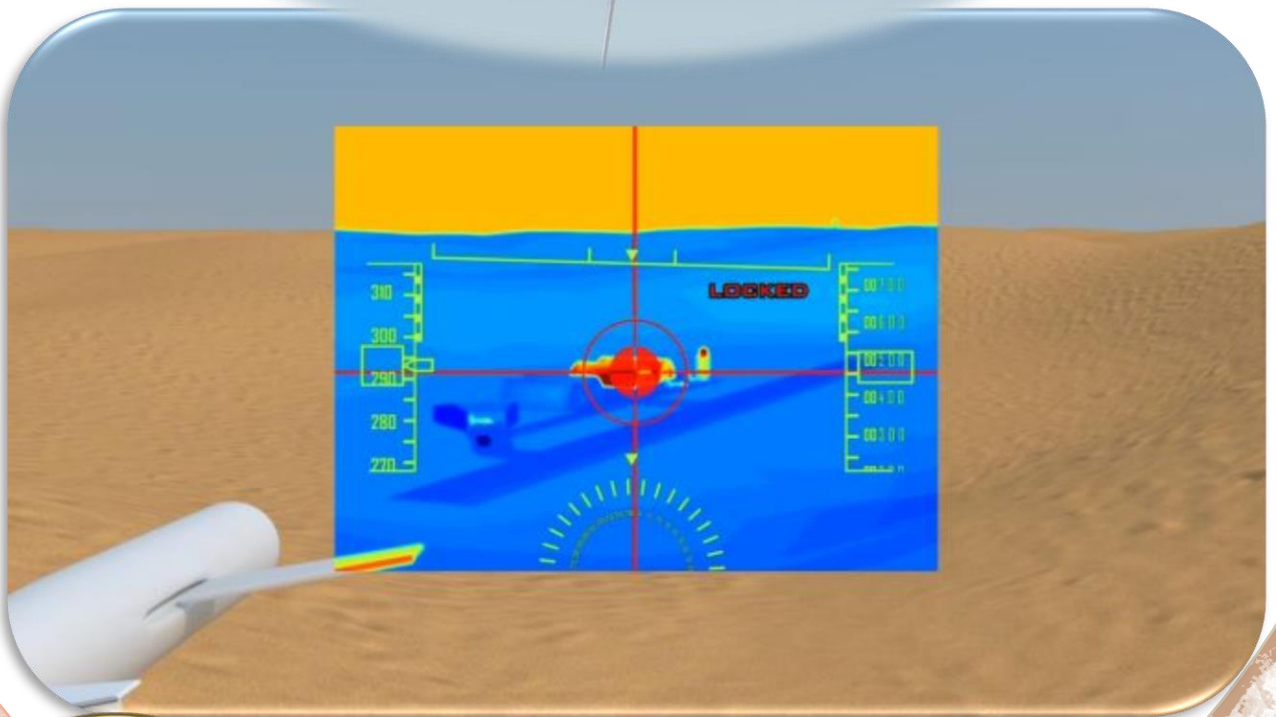


Countering Air & Missile Threats



INTERMAT
DEFENSE

Stealth Capability Coating System (SCCS)

**Protection of
Strategic Installations**

NCAGE CODE:G1836

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Threat of infrared homing missiles

A multidimensional attack is hard to SURVIVE

INTERMAT STEALTH CAPABILITY COATING SYSTEM (SCCS) can suppress drastically thermal emissions by whole buildings and critical infrastructure and alter the visual & thermal image of huge areas and integrated with friendly deception plans for CAMOUFLAGE, CONCEALMENT and DECEPTION of DEFENSIVE COUNTERAIR PLANS for protection against AIR and MISSILE threats across the range of military operations.

The depth of our technology is vast as we can apply our special coatings on critical infrastructure, runways, corridors and tarmac, hangars, shelters, ammunition depots, fuel storage, munitions depots, electrical power generation, etc.

- No location may be considered secure or secret
- No Air Defense System is absolute safe
- ECM capabilities of modern warfare & **multiple missile launching (salvo)**, gaps in radar coverage or even failures in Air-Defense System components result in allowing a **percentage of missiles penetrate** friendly Air-Defence "umbrella".

Infrared Homing Missiles

ECM capabilities of modern warfare & multiple missile launching (salvo), gaps in radar coverage or even failures in Air-Defense System components result in allowing a percentage of missiles penetrate friendly Air-Defence "umbrella".

Missiles succeed in penetrating the Air Defense "umbrella" are shifting during the terminal phase of trajectory to Infrared Homing (the most common practice) above the target area to perform the final approach stage of the track/trajectory and achieve a warhead event (explosion) on the "hottest" target within target area.

Infrared guidance is a passive system that enables the monitoring of heat generated by the target and then aiming at it. This type of guidance is referred to as "heat search".

Attack operations target the following components of enemy air and missile capability:

- Air and missile unit C2 nodes/centers.*
- Aircraft on airfields and in shelters.*
- Fixed and mobile launchers.*
- Airfield runways, taxiways, and underground facilities entrances.*
- Major C2 (Command/Control) facilities.*
- Operations and maintenance facilities, equipment, and personnel.*
- Logistic support (e.g., fuel storage, munitions depots, electrical power generation and transmission).*
- Target acquisition systems.*
- Transportation infrastructure*

INFRARED SENSOR



According to the German Governmental Institution specialized in missiles and ammunitions called Wehrtechnische **Dienststelle für Waffen und Munition (WTD 91)**:

"The MISSILE actually sees the thermal signature of the scene. If you do not have this DT, your weapon system is not able to LOCK ON and, in some cases, NOTABLE to launch the missile at all."

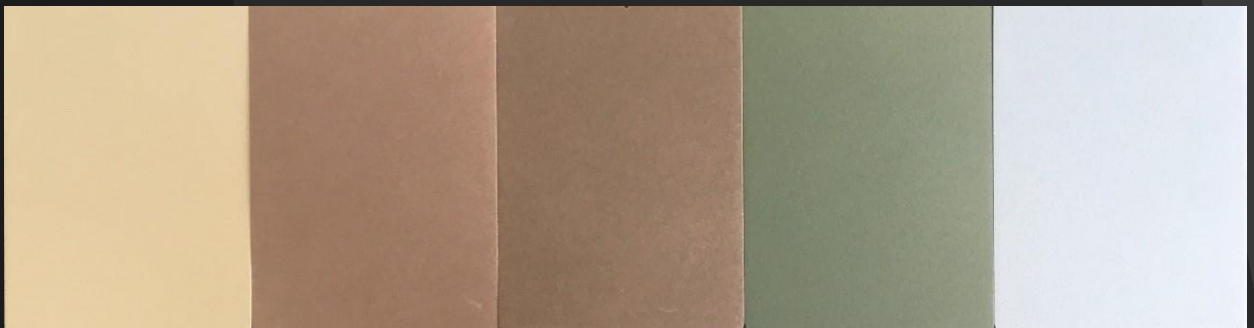
General Characteristics

A product with many features besides STEALTH CAPABILITY

- Application by commercially available Spray Gun Paint equipment
- Minimal Personal Protective Equipment (PPE)
- Stealth Capability in the entire THERMAL/IR spectrum
- Ease of Application following Working Instructions Sheet (WIS)
- Robust, effective & leading-edge result
- Maintenance Free
- Weightless with only a few microns of dry film thickness
- Available in all military colors Green, Brown, Khaki, Coyote, Sand, Black, Grey, Navy Blue, White, etc in close match to RAL and FS 595 color coding systems
- Applicable on any surface critical infrastructure, runways, corridors and tarmac, hangars, shelters, ammunition depots, etc.

Specifications

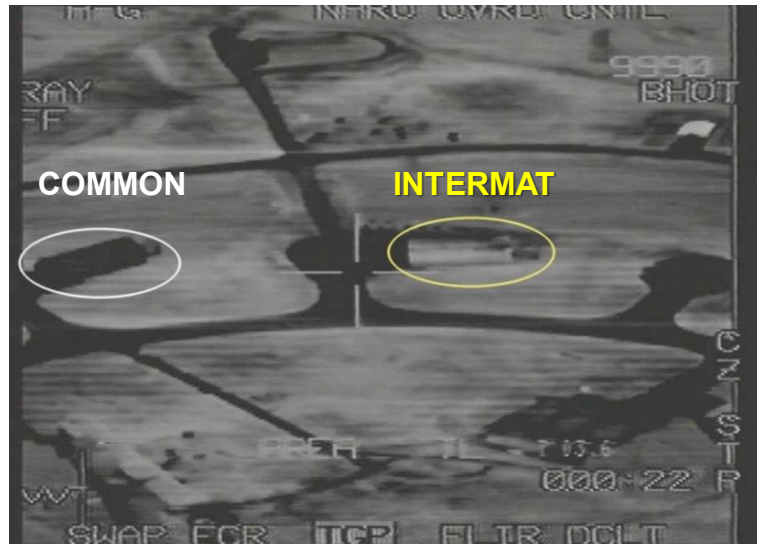
- **Modulated Performance : Controlled Heat Reflectivity**
- **Multi-spectrally responsive: NWIR, SWIR, MWIR 3-5, LWIR 8-14**
- **High UV-radiation resistance**
- **Highly Solar Reflective:** significant temperature reduction on internal & external surfaces
- **Matte Finish : Gloss ≤ 3**
- **Outstanding Weathering , Technical & Chemical Resistance**
- **Tunable Coating:** Color and level of performance are tunable
- **Technology Readiness Level (TRL): 9 (max) - Products are already in Service**
- **Manufacturer's Readiness Level (MRL): 10 (max) - Products are deliverable under the highest quality level available.**



Indicative palette of colors

INTERMAT painted HANGAR versus F-16 Block-50 LANTIRN System

- **STEALTH AC Hangar fades into the background clutter**
- **Effective maximum ranges for weapon delivery or target designation are drastically reduced**
- **Aircraft vulnerability on ground is reduced**
- **Maximum ranges for targeting tasks are reduced**
- **Hostile Aircraft vulnerable to Air Defence**

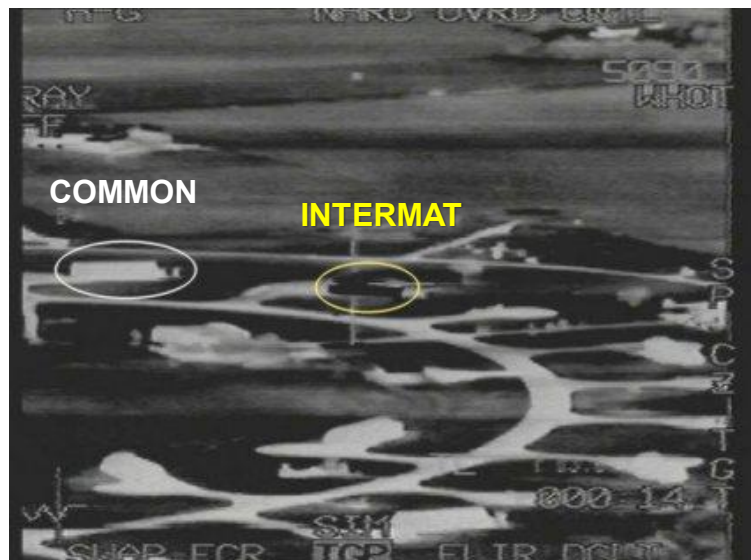


BHOT, Altitude 9990 ft, Slant Range 3.6 nm

Pilot and onboard thermal imager have a hard time acquiring targets as Intermat paints have totally changed the situation on the ground

Enemy Pilot has to approach in a range less than 10 nm (which is the critical maximum range for most of the **Laser Guided Bombs** for targeting tasks

Significant reduction of the detection range meaning the pilot must approach closer to identify the target therefore rendering the aircraft vulnerable to flak



WHOT, Altitude 5090 ft, Slant Range 3nm

INTERMAT painted Airfield runways & taxiways

- Merging with the surrounding
- FLIR capabilities are significantly degraded
- Consequent increase in the amount of workload, flight time and vulnerability of pilot's aircraft
- Camouflage, Concealment, Deception



WHOT, Altitude 4810 ft, Slant Range 1.4nm, WFOV

Capability to achieve a modulated deformation of the ground target, by schematic painting so that the target's IR signature is not distinguishable by FLIR systems from distances operationally exploitable such as MAP (Minimum Attack Perimeter)



WHOT, Altitude 4750 ft, Slant Range 1.2nm, WFOV

Life-Saving “Smart” Coating



BLACK HOT MODE (BHOT)

INTERMAT Stealth Capability Coating System is applied on military vehicles of all types, military installations and strategic infrastructure, such as hangars/shelters, air-fields, bunkers, oil and gas installations, missile and radar sites, communications and command & control and more.

Our coating covers combat vehicles' IR signature. You can think of it as the heat signature. Obviously, if a vehicle has a less detectable heat signature it would be less visible to a sensor that homes in on heat. The kind of sensors that might be on an enemy drone or a heat-seeking missile (anti-tank, etc.).

We're defending the people who are inside the Humvees or inside Combat Vehicles or inside the buildings. We're defending their lives. **If they can't be seen, and they can't be sought out by missiles, they can't be hurt.**

Ammunition Depot



An ammunition depot painted by Intermat Stealth Capability Coating System (SCCS) located in desert in harsh environment and weather which our paint can sustain

“Apply and Forget, Coat and Protect”

Countering Air & Missile Threats

INTERMAT as NATO complied anti-thermal/IR coating provides the only effective applicable solution capable of:

- Application on the widest base possible, as no other form of anti-thermal /visual camouflage could cover square miles of strategic infrastructure.
- Coating is always “alarmed” as it performs on a 24/7 basis. No devices, no personnel involved once applied, no “downtime” due to failures or malfunctions.
- Compatible to already deployed Air-Defense or Anti-Missile systems
- Fast applied solution
- The ONLY CAMOUFLAGE, CONCEALMENT and DECEPTION solution that works at the highest STRATEGIC level of HUGE AREAS integrated with deception plans for protecting critical installations against AIR and MISSILE threats across the range of military operations.

" You never know when you're being tracked by an eye in the sky that's just waiting for the signal to strike. And you have to drop your signature. If you're seen, either because you radiate, or because you're physically seen, you're targeted almost immediately."

Gen. Eric Smith, Assistant Commandant of the US Marine Corps referred to the psychological element of fear and uncertainty



STEALTH SUPREMACY

Stealth Capability Coating System (SCCS)



**APPROVED U.S. GOVERNMENT
VENDOR**

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