



DPM Shield™

DPM Shield™ Protects & Enhances Direct Part Marks for Long Term Durability In Harsh Environments

THE SCIENCE OF ID

Identification requires knowledge of codes, materials, adhesives, and reading technology. Freedom Technologies is dedicated to this pursuit & practical application.

CLIENT DRIVEN

All of Freedom Technologies Aptus ID products are driven by specific customer demands. Each product is designed to meet a real life need for ID or protection.

ENGINEERED ID FOR HARSH ENVIRONMENTS

Harsh environments are a specialty at Freedom Technologies. We welcome all challenges in ID; from security to tracing, we specialize in ID for parts that must stand up to critical conditions.



Direct part marking is an excellent method of securely identifying parts. It's secure because the mark is created directly on the part, offering great confidence to users that their parts are identifiable.

There are also several drawbacks to direct part marking. Some of the chief drawbacks of direct part marking is the inability to read marks with low contrast, high reflectivity, surface debris, corrosion and damage.

DPM Shield™ resolves several of these issues and enhances your ability to read these marks. The structure of the film allows your reader to easily recognize the low contrast cells of your code while offering very strong protection against agents which can degrade

- Advanced polymer developed specifically for protection against impact abrasion & durability
- Ultra clear film enhances code reading over unprotected direct part marks
- World class durability. Whether it's desert storms, corrosion or constant impact, DPM Shield™ is designed to keep your DPM clear and legible.
- Permanent self adhesive protection applies easily & securely

your mark such as:

- Debris Collection in Cells
- Corrosion Collection in Cells
- Cell Damage from Mechanical Impact
- Chemical Intrusion
- Sand Blasting / Desert Storms

DPM Shield™ is available in a variety of sizes and shapes to fit your various needs. It is also an ideal solution for protection of ID plates, brand names and other important data necessary for the life cycle of your parts.



A Veteran Owned Small Business

ULTRA CLEAR

The ultra clear structure of DPM Shield™ provides a perfect media for you to read your marks, even after harsh abrasion.

SAND STORM RESISTANT

Tested against direct sand blasting with black shot #20, DPM Shield™ was able to withstand greater abrasion than either aluminum or steel and still readable codes.

ADHESIVE LAYER

The bottom adhesive layer is well suited to bond to a wide variety of materials and become permanent. The adhesive is also resistant to chemicals, fluids and climate extremes.

For more information on any of our products or services please visit us on the Web at:
www.freedomcorp.com/aptus.html

Technical Information

DPM Shield™ is an Ultra Clear, Self Adhesive Surface Protection Product.

The clear protective top layer is a strong barrier to chemicals, fluids and abrasion, having been engineered specifically to provide protection from sources of potential mark degradation.

DPM Shield™ produced outstanding results under sand blasting tests. When placed over direct part marks on metal, the DPM Shield™ offered full legibility after blasting while the unprotected portions of the plates were not readable.

Sample images of actual results are shown here. Close up view of protected area after direct sandblasting is shown in the bottom image, original plate shown above.



BEFORE & AFTER SAND BLASTING WITH DPM SHIELD™ PROTECTING CODE



Black Anodized Aluminum plate with direct marking virtually destroyed by sand blasting except for area protected by DPM Shield™

Material Information

- Ultra clear polymer compound
- Pressure sensitive adhesive backing for application to a wide variety of materials. DPM Shield™ is supplied on a liner sheet.
- Material is available in rolls or die cut to size, please contact us directly for odd sizes and shapes
- Suitable for metal, painted metal and plastics.



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