

Product: CARC Paint UID Label



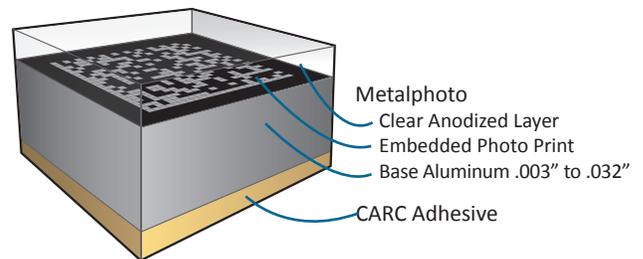
Product Features

- Specially formulated adhesive provides an outstanding bond to CARC surfaces.
- Metalphoto® is the most specified label material in history for DoD applications, and the best choice for [Mil-Std-130](#) applications requiring durable UID labels.
- Photographic quality black and silver graphics are high contrast with excellent resolution.
- All Camcode® [UID labels](#) are verified to the required print quality standards. Registration service is also available.

Need a Durable UID Label that will Bond to CARC?

Description

Camcode's **CARC Paint Label** was designed for applications requiring a durable "life-of-the-part" UID label with an application adhesive that will adhere to tough to bond surfaces like chemical agent resistant coating (CARC). This label is constructed of a Metalphoto® anodized aluminum face stock (thicknesses from .003" to .032"), with a high performance permanent pressure-sensitive adhesive specifically designed to bond to CARC paint surfaces. The label has excellent resistance to chemicals, abrasion, solvents, and will withstand exterior exposure in the harshest environments, including extreme cold, heat and UV. Expected exterior life is 20 years. Teflon® treatments are also available when resistance to CARC painting processes is required. Deadsoft material is available for applications with a curved surface.



Product Specifications

- Material** .003" to .032" Metalphoto anodized aluminum. Teflon® treatments are also available when resistance to CARC painting is required. Deadsoft material is available for applications with a curved surface.
- Attachment** .002" specially formulated adhesive for CARC surfaces.
- Label Copy** Several font types are available as well as logos or other design elements.
- Symbologies** All common symbologies available including code 3 of 9, I2 of 5, 128 and Datamatrix.
- Colors** Black or silver graphics on matte silver or black background is standard. Tactical camouflage background colors are also available.
- Standard Sizes** Several standard and custom sizes available.
- Packaging** On sheets or in bags, in boxes, in sequential order. 100% no missing numbers.
- Shipment** 15 working days from receipt of order and approval of artwork. Expedited shipment is available for an additional charge.

Durability Characteristics

Product Data (METALPHOTO ONLY)	Value	Test Method
Exterior Exposure	No Effect	Black and Silver image exceeds 400 hr. Weatherometer. Test GG-P-455b, est. equivalent to 20 yr. exposure
Expected Exterior Life	20 Years	
Abrasion Resistance	Slight dulling of surface	TaberAbraser with CS17 wheel, a total of 1000 gm. load 7000 cycles
Temperature Resistance	650°F	
Salt Spray	No Corrosion	5% at 95°F for 700 hrs.
Chemical Resistance		
MIL-S-3136 111 Hydrocarbon Fluid	No Effect	1 hr. immersion
MIL-L-5161C-Turbine and jet engine fuel	No Effect	1 hr. immersion
JP-4 Fuel	No Effect	72 hr. immersion
Kerosene	No Effect	12 hr. immersion
Skydrol (Hydraulic Fluid)	No Effect	24 hr. immersion at both room temp. and boiling point
Methyl Ethyl Ketone (MEK)	No Effect	24 hr. immersion
Ethyl Acetate	No Effect	24 hr. immersion
Xylol	No Effect	72 hr. immersion
Heptane	No Effect	72 hr. immersion
Ethyl Alcohol	No Effect	72 hr. immersion
Ferric Chloride	No Effect	10% solution, 16 hr. immersion
Ammonium Hydroxide	Slight Dulling	10% solution, 16 hr. immersion
MIL-P-21563 soap solution	No Effect	16 hr. immersion
MIL-C-25179 AIN in heptane	No Effect	25% solution, 1 min. immersion (cleaning solution)
Sulfuric Acid	No Effect	10% solution, 24 hr. immersion
Phosphoric Acid	No Effect	1% solution, 12 hr. immersion
Nitric Acid	No Effect	3% solution, 72 hr. immersion
TSP (Trisodium Phosphate)	No Effect	1% solution, 40 hr. immersion
Sodium Hydroxide	Not Recommended (surface attack)	1% solution, 1 hr. immersion

SPECIFICATION	PUBLICATION	DETAIL	DESCRIPTION
GG-P-455b	Federal Specification	Type I, Grade A or B Class 1 & 2	Photosensitive anodized aluminum impregnated with silver compounds printable on one or two sides - all finishes and thicknesses.
MIL-P-15024D	Military Specification	Type H & G	Totally anodized aluminum with characters integrated into the anodized layer photographically using silver compounds.
MIL-P-19834B	Military Specification	Type I or II Style III or IV	Metalphoto .003" thick plates with the proper adhesive applied meets or exceeds all of the performance requirements of this spec.
MIL-P-514D	Military Specification	Composition C	Photosensitive aluminum plates, grade and class as specified in federal specification GG-P-455b.
Industrial Commercial Products	Original Equipment Panel Fronts Nameplates	Metalphoto Products	Material shall be Metalphoto. Image (black on silver or silver on black shall be sealed into the anodized layer with photosensitive silver compounds: colors other than black may be imbedded by resist or screen process.

Product Data (ADHESIVE ONLY)	Value	Test Method
Physical Properties Thickness (mils[microns])	Film: TBD Adhesive: 1.9-2.1 (48-53) +/- 0.1 (3) Liner: 4.3 (109) +/- 10%	ASTM D 3652
Adhesive Properties Peel from CARC* Paint	Avg. 3 days RT Oz/in (N/m) 65 (715)	ASTM D3330
CARC Painted Panel		
Peel from:		ASTM D 903 (Modified for dwell time.)
Stainless Steel	109 (1199)	
Acrylic	103 (1133)	
Glass	108 (1188)	
Polypropylene	25 (275)	
Expected Shear (hours)	50	ASTM D 3654 Method A (1 hr. dwell, 1 sq. in., 4 lb. load)
Tack (gm/sq cm)	1020	ASTM D2979
Service Temperature Range	-40°F to 302°F (-40°C to 150°C)	
Minimum Application Temperature	50°F (10°C)	
Storage Stability	Two years at 70°F (21°C) and 50% RH.	

*Chemical Agent Resistant Coating

Note: Users must test products in the specific environment anticipated.
Camcode does not warrant performance of its materials in any environment.



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