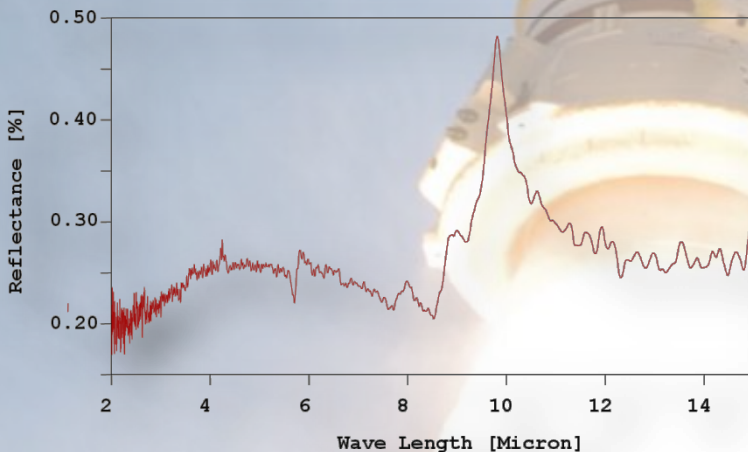


DURACONTM

DURAble and CONductive Black Coatings

- **DURACONTM** is a family of unique optical black coatings with emissivity approaching nearly 100%
 - These coatings are mechanically durable , rugged and stable to temperatures over 2000 °F
 - Users include an extensive list of defense contractors and commercial businesses

Emissivity, ϵ	>98+% in 8-14 μm range (MTC Measurements). >99% in 500nm - 20 μm range (Raytheon Measurements)
Electrical Conductivity	Can be customized Typical: < 700 ohm-cm; In special cases < 1 ohm-cm
Target Surfaces	Metallic, glass, ceramic, composite, plastic, plaster, wood, foam board, and even cardboard. Practically any solid surface
Wavelength Range	UV to long IR (> 25 microns)
Surface Finish	320 to 400-grit fine abrasive paper
Reparability	Simple, quick and <i>in-situ</i> deposit a fresh layer of DURACON TM
Adhesion & Aerodynamic Stability	Has withstood Mach 14 (U.S. Navy's wind tunnel test facility) and Mach 4 in corrosive hot gas testing (NASA's - MSFC test facility)
Thermal Stability	Up to 2050 °F
Application Methods	Brush on, air brush (spray), dip coating, spin coating, etc.



**3 Juniper Circle,
Trumbull, CT 06611
Phone: (203) 874-3100
contact@american-imex.com**

DURACONTM **DURAble and CONductive Black Coatings**

DURACON continues to be the best selling optical black coating available anywhere!

Recent applications:

- candidate nozzle extension coating for next generation Ares space launch vehicles
- sensor upgrades of F-16 avionics
- IR sensing systems and low earth orbit satellites
- pick and place systems in semi-conductor wafer fabrication
- glucometers for the healthcare industry

J-2X Engine
Ares Rockets



Nozzle Extension

Our Customers...

- NASA
- Raytheon
- BAE Systems/Galileo/Selex
- Sanders
- Northrop Grumman
- Los Alamos National Laboratory
- ASML
- Pratt & Whitney
- ITT Aerospace
- Ophir Optronics & Instruments
- UDT Sensors
- Boeing
- Ball Corporation
- OSI Opto electronics
- US Navy
- Rocketdyne
- Sellmark Products
- Universal Instruments
- SATAKE USA
- PerkinElmer Optoelectronics
- Xenogen
- Cambridge University
- SUNY - Buffalo
- Arizona State University
- University of Alaska
- InVivo Research
- Coastal Optics
- Micron Technology

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