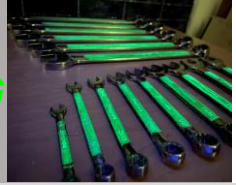
Shaw & Townsend Innovations, LLC

Research Driven · Readiness Minded · Responsive Team

Shawtownsend.com

BONUS: GLOWING TOOLS!



NATIONAL CENTER FOR MANUFACTURING SCIENCES

ENTERPRISE WIDE PROBLEM

DoW corrosion-related maintenance exceeds $20B/yr. That's $54.8M/Day & $38,000/Min

No easy way to Restore Metal
Naval equipment, ship, shore, and aircraft require quick time savings restoration and prevention methods.
Manhours = Mission Readiness

Aircraft require **Cr(VI)** spot treatment
Non-toxic simple spot treatment needed



BENEFITS



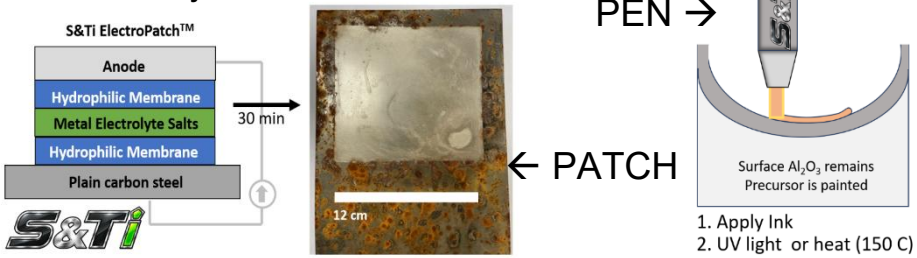
RAPID REPAIR
ElectroPatch – 45 min
NanoCeramicPen – 10 min

TRL-7 APPROVED
ElectroPatch – Tested by NAVAIR
ASTM / MILSTD Abrasion | Adhesion | Fluids | Corrosion

EXTEND SERVICE LIFE
Man-hours saved – Mission Readiness – Health and Safety Improved

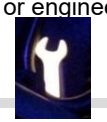
TECHNOLOGY

S&Ti technology provides a ElectroPatch™ Kit to restore steel and a NanoCeramic™ touch-up pen for spot treatment on aluminum or any metal.



BOOTH DEMONSTRATION

1) **CORROSION:** ElectroPatch Repaired Steel Panel Support Equipment
2) **CORROSION:** NanoCeramic Pen Prototype Touch-Up Repair Aircraft
3) **TOOL MANAGEMENT:** Glowing Tools. Flightline or engineering spaces.
   Scavenger Hunt! (TRL-7 fluorescent coating)



ACCELERATOR OPPORTUNITY

Funding Requested: S&Ti conducts R&D collaboratively
S&Ti team: PhD level projects backed by US Navy experience