NAVAL RESEARCH LABORATORY The Corporate Laboratory for the Navy and Marine Corps

Thermal Spray Nonskid

The Naval Research Laboratory (NRL) has developed a highly tolerant, temperature resistant (HTTR) thermal spray nonskid (TSN) to mitigate the impact of vertical landing airframes, Joint Strike Fighter (F-35B) and Osprey (MV-22), on flight deck nonskid coatings. Operational and mock scale evaluations show current epoxy nonskids cannot survive JSF or MV-22 deck operations. To meet these requirements, NRL leveraged programs initiated by ONR and NAVSEA to identify alternative nonskid technology. Thermal sprays emerged as the most viable solution, providing heat resistance, corrosion protection, and slip resistance.



Application Areas

- Navy flight deck ship surfaces
- Military and commercial flight surfaces
- Marine structures
- Process plants



Licensing and Collaboration Opportunities

Collaborative research and development is available under a Cooperative Research and Development Agreement (CRADA).

For more information, contact: Rita Manak, Ph.D. Head - Technology Transfer Office Tel: (202) 767-3083; E-mail: rita.manak@nrl.navy.mil; refer to MAT43