Siloxane-Based Nonskid and Topside Coatings

The Naval Research Laboratory (NRL) has developed a novel siloxane-based nonskid and topside coatings for Navy surface ships. The siloxane nonskid is a two-component (2K) system with a 4:1 mix ratio (by volume) that is applied via roll or spray to generate a rough profile. The topside coating is a single-component (1K) system that does not require the mixing of components and is applied via spray, brush, or roll. Both coatings are being qualified to MIL-Spec. requirements.

Advantages

- Enhanced performance.
- Longer service life.
- Reduced corrosion compared to currently qualified nonskid and topside coatings.
- Reduction in maintenance costs for Navy feet.

Application Areas

- Maritime ship and structures
- Marine structures (e.g. oil rigs)
- Process plants
- Pleasure watercraft
- Helicopter landing zones
- Public walkways, ramps, and stairwells
- Rail cars

Licensing and Collaboration Opportunities

US Patent No. 8,133,964; 9,006,307; 9,034,946; 9,139,753 and US Patent Publication No. US20150291837A1 are available for license to companies with commercial interest. 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 MAT42