



JBS 5th D Structures Enhance Marine Paint

JBS 5th Dimensional Structures LLC are based in the USA. Our nanotechnology division specializes in the commercialization of a wide range of Nanoparticles and innovative 5th D technologies.

- 5th D structures reduce the oxidation process on Naval ships and military equipment, having less structural or integral failures on all surfaces including welded joints and other locations.
- 5th D structures change the atomic memory of pre-existing metals reducing oxidation by at least 25%.
- Easily added to pre-existing U.S Navy interactive layered coating systems.
- Optimized atomic bonding provides UV protection increase of approximately 45%.
- Our 5th D structures are a green product and meets the specifications of UL 753 choke test.
- 5th D structures can be easily added to the Navy's current paint and coating inventories at most existing bases.
- Enhanced antifoulant aspects reduce fuel costs by eliminating vessel drag.
- 5th D structures are formulated to enhance the Navy's specific issues such as rust, radiant heat absorption, chemical and oil spills.
- 5th D structures have more surface strength than traditional coatings so oils, dirt and grease will be less likely to adhere to surfaces. This allows the user to clean up with potable water instead of degreasing.
- 5th D structures atomically bind from layer to layer without typical delamination and failure. These coatings are 25% harder, reducing scheduled maintenance, saving manpower and other resources.
- Our 5thD structures are fire resistant for as much as two hours.

- Naval custom formulations can include the reduction of electrochemical properties that will help the reduction of radar signatures.
- Using 5th D structures and coatings for naval applications gives an increase of surface strength at an atomic level. These structures are natively denser, combat mold, mildew and moisture that create dangerous operational surfaces.
- **For more information contact:**

john.northcott@jbsengineering.co.uk
mike.wharton@jbsengineering.co.uk

