

1. PROTECTIVE COATINGS

Nanocomposite coatings designed to enhance wear and abrasion resistance, UV-protection, and other functional properties.

Self-healing Coatings

“Mend-M” self-healing clearcoat technology provides a durable, long lasting finish for metal substrates.

“Mend-MW” self-healing polyurethane dispersion is made from polyurethane matrix. Coatings made from this dispersion exhibit self-healing properties. An added advantage of this waterborne dispersion is that it is solvent free with zero VOC.

“Mend-W” self healing coating provides a long lasting, low maintenance finish for wood. Self-healing functionality allows for a high degree of scratch repair and gloss recovery, even in repeatedly damaged areas.



Abrasion Resistance Coatings

“Hardcoat SR-100” fulfills the need for abrasion or scratch resistant coatings on plastic substrates.

It is a liquid and can be applied on surfaces using standard coating processes, including dip-coating, spray coating and spin-coating.

Another type of abrasion resistance coating i.e. ***“Hardcoat UV-100”*** provides both scratch resistance and UV protection to plastic substrates.

UV radiation at wavelengths below 350nm is cut to almost 100% with the coating, leading to improved weatherability and suppression of discoloration of the substrate.



Anticorrosion Coatings

“PT-15” makes an excellent paint base for corrosion protection of Mg-Al magnesium alloys, such as the most common AZ91 alloys.

Pretreatment of magnesium alloys with ***PT-15*** results in a chemical conversion coating that is nano-structured and is crack-free.

“PT-30” is a chromate-free, environmentally benign chemical pretreatment bath for developing conversion coatings for copper alloys.

The coating provides corrosion protection of copper alloys in recycled water.



Coating Additives

“PC-10” is easily incorporated into commercial coating formulations.

Wear resistance is dramatically improved with only a small additive loading.

Improve the abrasion resistance and scratch resistance of the coatings.

Used in a number of different coating applications, including automobiles, aircraft, cosmetics, floors, septic tanks, structural steels, and buildings.

“PC-20” can be used in a wide range of applications including specialty fabrics, medical devices, and a wide range of metal coatings.

Silicone-based coatings for thermal and barrier applications, as well as silicone-based adhesives.

Thermal Spray Coating

“TS-10” is "multimodal" thermal spray coating powders for wear and erosion resistance.

3. HEAT TRANSFER FLUIDS

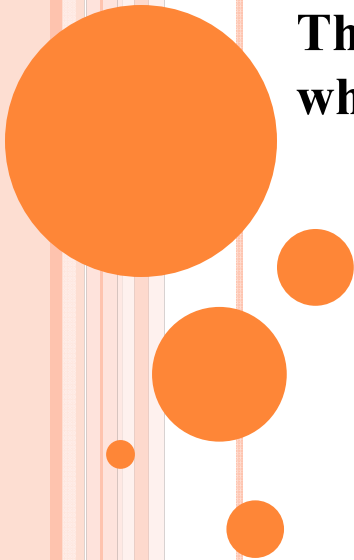
Heat transfer fluids, engineered with nanoscale particles for demanding cooling applications.

ThermoDon-1

ThermoDon-1 is an efficient heat transfer fluid for applications where water is used as coolant.

ThermoDon-2

ThermoDon-2 is an efficient heat transfer fluid for applications where oil is used as coolant.





Thank you

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