

HYDROPHOBICITY (TOP) & OLEOPHOBICITY (BOTTOM)
UNCOATED VS. EVERPEL TREATED



EVERPEL CREATES A CORROSION-
RESISTANT PASSIVATING LAYER

NANOCOMPOSITE OMNIPHOBIC SURFACE TREATMENTS

EverPel is an advanced nanomaterial technology designed to impart chemical resistance, low surface friction, and water & oil repellency to surfaces. EverPel is ideal for substrates exposed to extremely corrosive conditions or to direct contact with harsh chemicals.

EverPel can be applied in-place, to previously degraded surfaces, providing the dual effect of arresting existing corrosion as well as acting as a passivating barrier to further corrosion or chemical attack. EverPel's omniphobic properties provide superior tribological wear-resistance, water repellency, and oil repellency. The surface treatment is a water-based polymer that dries within hours. It is non-VOC, non-biocidal, and non-toxic after curing making it applicator friendly and easy to work with in most conditions.

How EverPel Works:

EverPel is a two-part nanocomposite surface treatment that cures to create a corrosion-resistant base substrate and a low-friction, omniphobic surface. The surface treatment can be applied on top of previously damaged or worn metal substrates. The omniphobic polymer creates an ultra-slick surface with inherent hydro- and oleophobic properties. After mixing, EverPel polymer has a pot life of over 72 hours, yet can air-cure in under two hours once applied and is effective at thicknesses of <2mil.

Key Benefits:

- Creates a low-friction surface imparts erosion & corrosion resistance when applied in extremely thin coats (<2 mil)
- Is water based (approximately 75%), non-VOC, non-biocidal, and non-toxic
- Is non-insular (transfers heat), has strong substrate adhesion and is abrasion-resistant
- Functions under extreme pressures & temperatures
- Has controllable color, a pot life of 72+ hours after mixing, and air-cures in under two hours
- Multifunctional properties can be applied to many metallic surfaces with ease

Applications of EverPel



AEROSPACE

OIL & GAS



MARINE

WATER

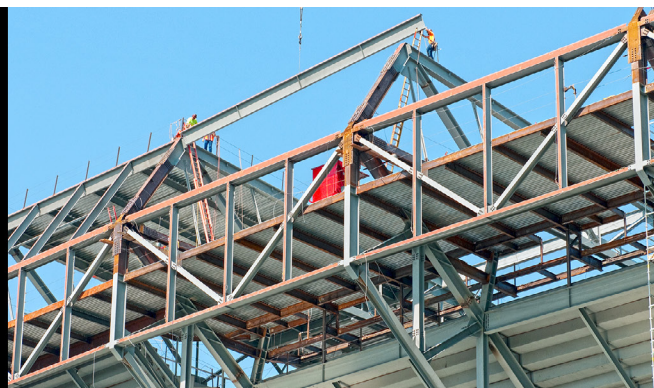


ENERGY

INDUSTRIAL



BUILDINGS & STRUCTURES



TANKS & STORAGE



INFRASTRUCTURE



RAIL & TANKCARS



EverPel formulations are suitable for a wide range of applications across many, diverse industries. EverPel has been tested on cables, infrastructure such as bridges, storage tanks, and more. The treatment is chemically resistant to a wide range of pH levels, making it ideal for applications where harsh environmental conditions exist or when in direct contact with chemicals or hydrocarbons in storage & transport scenarios.

The nanocomposite treatment is water-based, non-VOC, and non-toxic, making it far easier to work with than epoxies or other coatings. Past coating technologies have often been high in VOC with long curing times, making the work hazardous to the applicators.

EverPel has controllable color and the formulation can be fine-tuned for various application methods, complex geometries, specific environmental conditions, and more. Get in touch with Oceanit to learn more.