



Applications for Protective Coatings

Application	Corrosion Problem	Cerablak™ Performance Advantage
<i>Coal-fired boilers, Turbines</i>	High temperature oxidation & corrosion	<ul style="list-style-type: none"> • Prevents moisture/steam attack • Ultra-thin films minimize thermal stress • Stability against molten salts
<i>Marine & Offshore components</i>	Atmospheric corrosion from salty air	<ul style="list-style-type: none"> • Resistant to salt fog corrosion • Can be transparent or colored • Pinhole-free coating
<i>Glass (automotive, architectural windows, refractories)</i>	Moisture susceptibility & hydrophilicity	<ul style="list-style-type: none"> • Non-wetting or Hydrophobic (self-cleaning) • Hermetic sealing
<i>Molten metal processing (aluminum)</i>	Corrosion from molten metal	<ul style="list-style-type: none"> • Non-wetting to molten aluminum • Oxidation protection
<i>Cookware & Accs.</i>	Surface degradation	<ul style="list-style-type: none"> • Prevents oxidation discoloration • Non-stick behavior

Other Potential Uses

Application	Corrosion Problem	Cerablak™ Advantage
<i>Marine vessels, Offshore oil rigs</i>	Atmospheric and seawater corrosion	<ul style="list-style-type: none"> • Prevents corrosion from salt fog • Possibly non-stick for microbes and sea life (barnacles, etc.)
<i>Architectural copper, Brass, Other</i>	Atmospheric corrosion and formation of patina	<ul style="list-style-type: none"> • Hydrophobic • Water beads up without leaving a corrosive residue
<i>Petrochemical, Chemical Processing,</i>	Oxidation, corrosion from process fluid, coking	<ul style="list-style-type: none"> • Oxidation protection • May be non-stick to coke • May retard coke formation
<i>Automotive</i>	Atmospheric corrosion and salt	<ul style="list-style-type: none"> • Prevents rust of structural and engine parts
<i>Pulp and Paper</i>	Corrosion from chemicals	<ul style="list-style-type: none"> • Protective coating