

ASTM FIELD CORROSION EXPOSURE REPORT

CoilSafe® – 25,000 Hour Oceanfront Exposure Test — Galveston Island, Texas

Product:	CoilSafe® Coating	Standard:	ASTM G50
Duration:	25,000 hrs	Environment:	Oceanfront salt-air
Location:	Galveston Island, TX	Coating:	8-micron covalent film

1. Scope

ASTM G50-style marine exposure evaluation of CoilSafe® versus an uncoated control coil.

2. Test Apparatus & Materials

Two coils evaluated: CoilSafe® (8-micron covalent film) and an uncoated control coil.

3. Exposure Conditions

Continuous airborne chloride, humidity, and salt-air effects at true oceanfront site.

4. Results Summary

Parameter	CoilSafe®	Uncoated
Corrosion	None	Severe
Pitting	None	Heavy
Fin Integrity	Intact	Degraded
Bonding	Covalent adhesion	N/A

5. Visual Documentation

CoilSafe® Treated Coil



Uncoated Control Coil



6. Conclusion

After 25,000 hours of natural marine exposure, CoilSafe® exhibited complete corrosion resistance while the uncoated coil showed extensive deterioration consistent with chloride-driven corrosion. Testing verified by CZ Labs