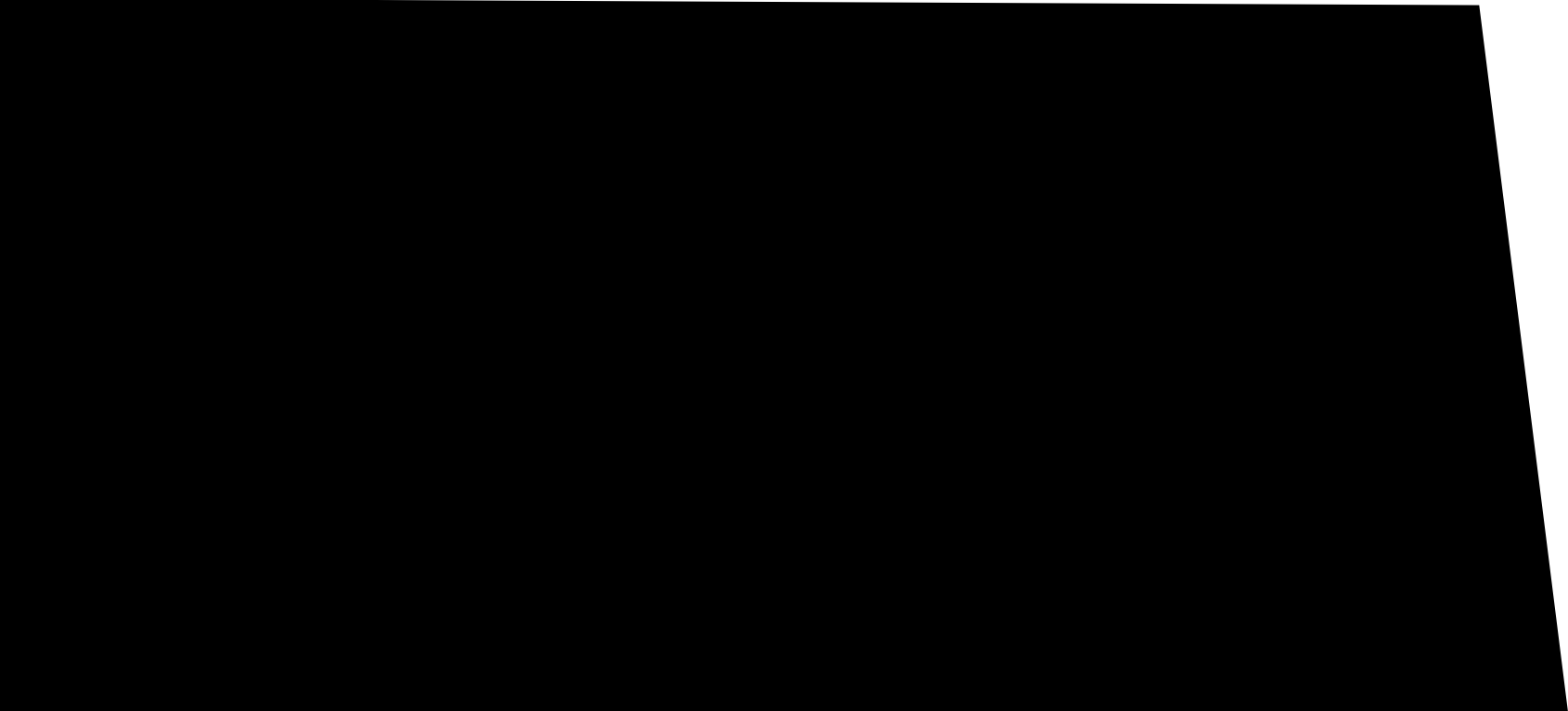


# Marine

## Coatings and Linings

Superior Protection for Aggressive Environments





# Proven Products from an Industry Leader

Carboline is the leader in the protection of marine structures. Our comprehensive product line offers the right solutions on new construction and maintenance projects for these tough and demanding environments anywhere in the world. Our highly regarded products are fully tested and field proven; and backed by a team of professionals focused on the needs of the marine industry.

## Product Line

- › Outstanding corrosion protection products
- › Surface tolerant coatings
- › Moisture tolerant coatings
- › Low temperature and quick cure products
- › Ultra-weatherable finishes
- › Chemical resistant linings
- › Non-slip deck systems

## Certifications / Listing

- › Det Norske Veritas
- › Underwriters Laboratories
- › National Sanitation Foundation
- › Lloyd's Registry
- › American Bureau of Shipping

## Affiliations



## Wheelhouse, cranes, equipment, piping, handrails, and decks

Marine exposures are extremely aggressive to steel due to the severity of constant ultra-violet radiation and a corrosive salt-laden environment. Coatings must offer reliable outstanding barrier and anti-corrosive protection from moisture permeation and resist sub-film corrosion should breaks in the film occur. They often need to provide protection for extended periods of time between dry dockings or repaint cycles.

### Carbozinc® Primers

Carbozinc zinc-rich primers have outstanding performance in marine environments, showing excellent sub-film corrosion resistance and longevity to match the life of the vessel.

### Carbocoat® Alkyds

Carbocoat alkyds are single-package, primers and finishes that are fast dry and easy to brush and roll, making them ideal for touch-up and maintenance.

### Carboguard® Epoxies

Carboguard epoxies include a variety of excellent barrier coatings with chemical resistance and ease of use characteristics for use over zinc primers or direct to steel.

### Carbothane® Acrylic Polyurethanes

These finishes are high performance polyurethanes that provide long-term color and gloss retention.

### Carboxane® Finishes

Ultra-weatherable siloxanes provide extreme long-term color and gloss retention due to their unsurpassed resistance to ultra-violet radiation.

### Carboguard Non-Skid Epoxies

Epoxy coatings that incorporate high profile, non-slip aggregate in a tough epoxy binder system provides safe working conditions in medium to heavy duty exposures. They offer excellent barrier protection and chemical resistance to oils, salt and water.

### Carbocoat Non-Skid Alkyds

Single-package, easy to use, non-slip alkyds provide optimum protection for light to medium duty service. They are easy to maintain, touch-up and recoat.



## Anti-Corrosive and Antifoulants

In order to maintain a vessel running smoothly and efficiently it must be protected with a reliable anti-corrosive and antifouling coating. The system must have excellent immersion and fouling resistance to withstand the tough marine environment expected between dry dockings.

### Carboguard Epoxies

Carboguard epoxies include a variety of excellent anti-corrosive barrier coatings with outstanding water and salt-water resistance. Choose from a selection of fast cure, fast recoat and low temperature cure coatings.

### C-Flex®

C-Flex ablative, tin-free, antifoulants protect hulls from marine fouling, reduce hull cleaning costs and offer fuel savings by reducing the friction caused by biofouling. Co-biocide formulations increase resistance to slime and algae fouling.



## Ballast tanks, potable water tanks, dry void tanks, fuel tanks and chemical storage tanks

There are a variety of tank lining needs on board vessels specific to the cargo to be stored. Whether the need is for abrasion resistance, chemical resistance, corrosion resistance or product purity, Carboline linings offer long-term performance in what is considered “critical” service in tank lining applications.

### Carboguard® Epoxies

Carboguard epoxies include a wide variety of excellent barrier coatings for a wide range of water service, including fresh water, potable water, waste water and sea water (ballast tanks) with ease of use characteristics for use over zinc primers or direct to steel substrates.

### Phenoline®

Highly functional epoxy and modified epoxy linings for a variety of petroleum storage products including fuels, oils and crude oil.

### Carbomastic® Coatings

Carbomastic coatings are surface tolerant epoxies that can be applied over marginally prepared steel substrates, will tolerate damp surfaces, and can cure at low temperatures for year round painting in some of the worst conditions.

### Plasite®

Ultra High Performance linings that have been developed for unsurpassed performance in extreme chemical service.



## High Heat, Insulation, and Interior Spaces

High temperature piping and equipment are often insulated for process efficiencies, safety requirements or energy conservation. Moisture and chemicals can eventually find their way inside the insulation that will accelerate the corrosion process. Coating systems designed to handle the aggressive chemicals and thermal, wet/dry cycling are critical for long term performance. The interior spaces of a ship are also exposed to aggressive environments such as frequently wet floors and hull sweating. It is crucial for a coatings system to protect the interior spaces from corrosion and provide safety for workers from burns, slips and falls.

### Thermaline®

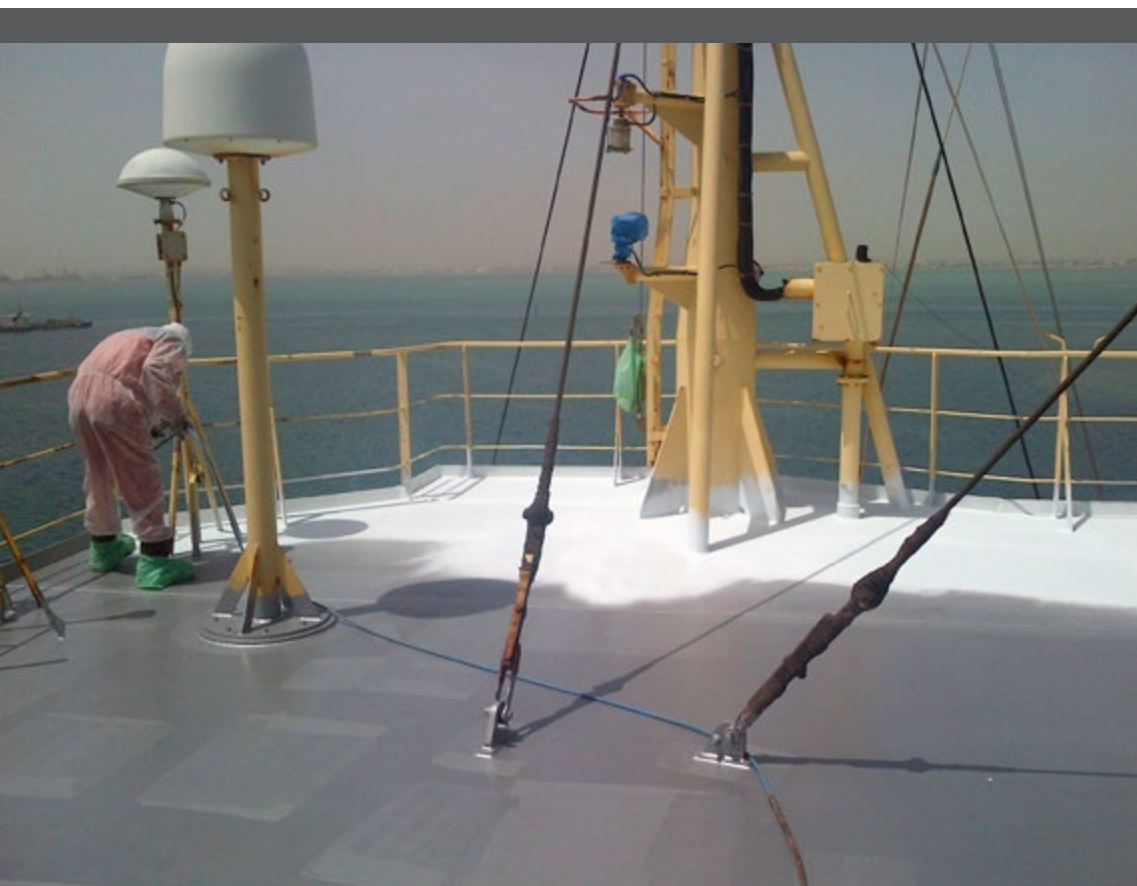
High heat coatings used for the protection of steel substrates operating at elevated temperatures. Thermaline also protects steel from corrosion operating under insulation.

### Carbotherm®

Carbotherm coatings are unique thin-film, insulative products that provide safety for workers from hot surfaces. They are ideal for insulating wheelhouses from solar radiation or insulating cold substrates that would otherwise result in condensation and sweating surfaces.

### Sanitile®

Sanitile systems offer a durable "tile-like" finish for surfaces from floor to ceiling. Sanitile coatings offer solutions for protection against impact, chemical spills and harmful bacteria.



# GLOBAL COATINGS LEADERS™

RIGHT PEOPLE • RIGHT PRODUCTS • RIGHT LOCATIONS



## GLOBAL MANUFACTURING PLANTS

**CARBOLINE COMPANY**  
GLOBAL HEADQUARTERS  
2150 SCHUETZ ROAD  
ST. LOUIS, MO 63146 USA  
PH: +1-314-644-1000  
WWW.CARBOLINE.COM

**ARGENTINA - BUENOS AIRES**  
EINSTEIN 1095  
PARQUE INDUSTRIAL OKS  
GARÍN PROV. DE BUENOS  
AIRES, ARGENTINA  
PHONE: 54-3327-44-2222  
FAX: 54-3327-44-2223

**AUSTRALIA - BRISBANE**  
7 PRODUCTION AVE  
ERNEST JUNCTION  
QUEENSLAND 4214  
AUSTRALIA  
PHONE: +61 7 3287 0222  
FAX: +61 7 5594 9093

**CANADA - ONTARIO**  
420 TAPSCOTT ROAD UNIT 5  
SCARBOROUGH, ONTARIO  
M1B 1Y4, CANADA  
PHONE: 416-292-2361  
FAX: 416-298-5887

**CHINA - DALIAN**  
HOU SHI CUN, DA WEI JIA  
ZHEN  
JIN ZHOU DISTRICT  
DALIAN, CHINA 116110  
PHONE: 86-411-8789-8441,  
8442, 8443, 8444  
FAX: 86-411-8789-8445

**INDIA - CHENNAI**  
NO. 356 & 357 SIDCO  
INDUSTRIAL ESTATE  
AMBATTUR,  
CHENNAI 600 098  
INDIA  
PHONE: 91-22-28500321  
FAX: 91-22-28500323

**INDIA - MAHARASHTRA**  
GUT NO. 300  
VILLAGE MUSSARNE  
BHIWANDI WADA ROAD,  
TALUKA WADA,  
DISTRICT PALGHAR,  
MAHARASHTRA  
INDIA

**INDONESIA - JAKARTA**  
MENARA SATU, BULEVAR  
KELAPA GADING LA3 NO.1,  
7FL, SUITE 706.  
KELAPA GADING PERMAI,  
JAKARTA 1420  
INDONESIA  
PHONE: +62 21 29375692  
PHONE: +62 21 29375693  
FAX: +62 21 29375696

**ITALY - ALGHERO**  
VIA MILANO 150  
20093 COLOGNO MONZESE  
(MI), ITALY  
PHONE: 3902-25 3751  
FAX: 3902-25 37560

**JAPAN - AMAGASAKI**  
TERAMOTO UNYU SOKO CO.,  
LTD 17  
MINAMIHATSUSHIMA-CHO,  
AMAGASAKI, 660-0833 JAPAN  
PHONE: 81-3-3643-4501  
FAX: 81-3-3643-2951

**MALAYSIA - KUALA LUMPUR**  
LOT 37631-37632 JALAN 6/37A  
TAMAN BUKIT MALURI  
INDUSTRIAL AREA  
KEPONG 52100,  
KUALA LUMPUR, MALAYSIA  
PHONE: 603-6277-9575  
FAX: 603-6277-4645

**NEW ZEALAND - TAURANGA**  
91-111 OROPI ROAD  
GREERTON  
TAURANGA  
NEW ZEALAND  
PHONE: +64 7 5411 221  
FAX: +64 7 541 1310

**NORWAY - LIERSTRANDA**  
P.O. BOX 593  
3412 LIERSTRANDA, NORWAY  
PHONE: 47-32-857300  
FAX: 47-32-857301

**PUERTO RICO - SAN LORENZO**  
URB. APONTE #5  
SAN LORENZO, PUERTO RICO  
00754  
PHONE: 787-736-4221  
FAX: 787-736-53133

**SAUDI ARABIA - DAMMAM**  
1ST INDUSTRY CITY, 28TH  
STREET  
P.O. BOX 1050  
DAMMAM 31431,  
KINGDOM OF SAUDI ARABIA  
PHONE: +966 3 847 3044  
FAX: +966 3 847 3689

**SOUTH AFRICA - JOHANNESBURG**  
8 CRESSET ROAD  
MIDRAND INDUSTRIAL PARK  
JOHANNESBURG,  
SOUTH AFRICA  
PHONE: 27-11-2545500  
FAX: 27-11-310-2872

**SOUTH KOREA - BUSAN**  
43-1, JINYOUNG-RI  
JINYOUNG-EUB  
KIMHAE-CITY, 621-800  
KYOUNGSANGNAMDO, KOREA  
PHONE: 82-55-343-6441/5  
FAX: 82-55-343-6414

**THAILAND - BANGKOK**  
1/11 BANGCHAN INDUSTRIAL  
ESTATE  
SOI-SERI-THAI 54,  
KANNAYAO, BANGKOK 10230  
PHONE: +662 906 3042-3  
FAX: +662 906 3044

**TURKEY - BURSA**  
ALI OSMAN SONMES CAD.  
NO.4  
BURSA, DOSAB 16369 TURKEY  
PHONE: 90-224-261-0537

**UAE - DUBAI**  
P.O. BOX 3034  
DUBAI, UAE  
PHONE: 971-4-347-0460  
FAX: 971-4-347-0242

**USA - DAYTON**  
95 AIRPARK VISTA BLVD.  
DAYTON, NV 89403  
PHONE: 775-246-0760  
FAX: 775-246-0763

**USA - GREEN BAY**  
614 ELIZABETH ST  
GREEN BAY, WI 54302  
PHONE: 920-437-6561  
FAX: 920-437-8546

**USA - LAKE CHARLES**  
900 OPELOUSAS STREET  
LAKE CHARLES, LA 70601  
PHONE: 337-433-0605  
FAX: 337-439-0380

**USA - LOUISA**  
321 DUKE ST.  
LOUISA VA 23093  
PHONE: 540-967-5119  
FAX: 540-967-5120

**VENEZUELA - VALENCIA**  
URBANIZACION INDUSTRIAL  
"EL TIGRE"  
AVENIDA PRINCIPAL  
GALPÓN "H"  
VALENCIA EDO. CARABOBO  
VENEZUELA  
PHONE: 58-245-4000400  
FAX: 58-245-5642011

