

# Water & wastewater

Superior protection from collection to storage



# Proven products from the industry leader

Solving our customers' problems is how we got started and after 75 years, it's still our focus at Carboline.

# 1947

Since 1947, we have been dedicated to delivering innovative coatings, linings, and fireproofing products. We are driven to provide the best solutions, service, and quality to our customers.



Our customers can be confident that behind every sale is a team of some of the most well-respected members of the industry, dedicated and determined to make your project a success.



Our global network of industrial service centers and distribution points are strategically located around the world to provide the highest level of service and support for your project.



[www.carboline.com](http://www.carboline.com)



Carboline is the leader in the protection of water and wastewater facilities. Our comprehensive product lines offer the right solutions on new construction and maintenance projects for these demanding environments anywhere in the world. Our highly regarded products are fully tested, field-proven, and backed by a team of professionals focused on the needs of the water/wastewater industry.

## Product line

- › Industry-leading 100% solids technology
- › VOC- and HAPs-free coating solutions
- › Direct-to-metal (DTM) products
- › Ease of application and fast curing
- › Excellent weathering
- › Excellent corrosion and chemical resistance

## Certifications / Listing

- › UL- and NSF-approved products
- › ISO-certified since 1993
- › FDA-compliant

## Affiliations



American Water Works  
Association



# Manholes, fittings, penstocks, piping, pump stations, valves, and wet wells

Increasing levels of hydrogen sulfide and various loading parameters have led to cracking and corrosion in manholes, sewer interceptors, and lift stations. Coatings with hydrogen sulfide resistance and dynamic crack bridging capabilities are necessary to restore wastewater infrastructure.

## Reinforced epoxy linings:

**Hydroplate® series** linings are designed to coat steel and concrete storage tanks and pipes, valves, and fittings. The Hydroplate series includes single- and multiple-coat linings that offer high-solids, high-build capabilities, fast-cure properties, and the ability for rapid return to service.

**Plasite® series** ultra-high performance linings have been developed for extreme chemical exposure, high-pressure applications, and higher temperature service. This series includes single-coat, high-build, solvent-free products with fast-cure properties for rapid return to service.

## Leak sealing solutions:

**Prime Resins®** single- and multi-component, injectable resins are used to stop active water intrusion and inflow and infiltration in water and wastewater or storm sewer structures.

**Prime Flex®** hydrophilic and hydrophobic polyurethane injectable grouts stop and control active water intrusion. With varying levels of reaction or set times, these low- and super-low viscosity solutions are ideally suited for stopping leaks in manholes, pump stations, piping, tunnels, and other infrastructure assets.

## Rapid-curing polyureas, polyurethanes, and hybrids:

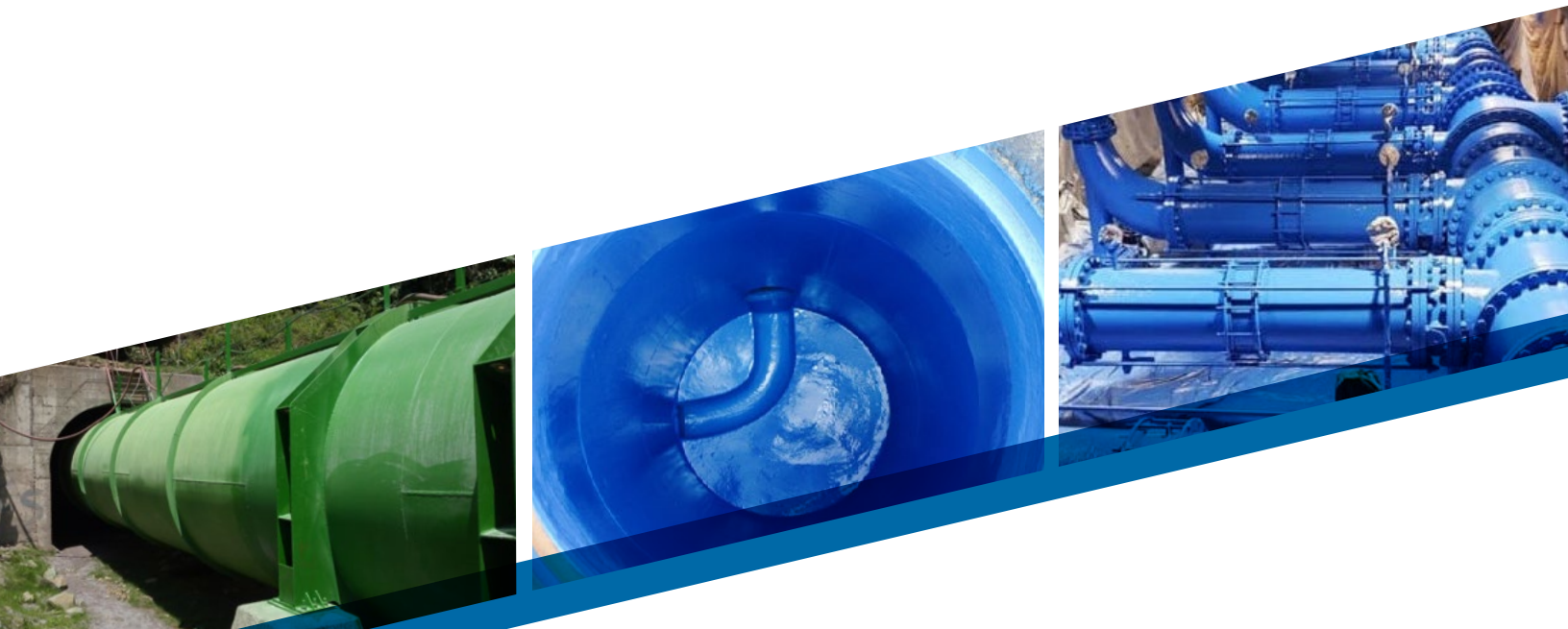
**Polyclad® series** polyurethanes are high-performance structural polyurethane coatings. These coatings are used for corrosion protection of steel, ductile iron, and concrete pipelines.

**Reactamine® series** hybrid polyurethanes provide both a water- and wastewater-resistant barrier and crack-bridging capability over concrete surfaces. Extreme abrasion-resistant properties with fast-cure capability make Reactamine quite versatile.

## Surface restoration products:

**Carbocrete® series** cementitious mortars are spray-grade repair mortars and surfacing compounds that exhibit excellent bond strength to concrete. They are ideally suited for substrate resurfacing and waterproofing barriers. They can be topcoated with Carboline linings systems.

**Carboguard® series** cementitious epoxies are high-performance, aggregate-filled reinforced polymer cement mortars designed for resurfacing, patching, or filling voids, honeycombs, and bug holes in concrete.



## Aeration tanks, bar screens, chemical storage, clarifiers, digesters, secondary containment, grit tanks, headworks, settling tanks, and trickle filters

Specialized manufacturing processes require individualized wastewater treatment procedures. Denitrification, pH adjustments, and heavy metal removal are just a few of the procedures that demand corrosion control solutions.

### Water immersion coatings:

**Carboguard series** epoxies have excellent chemical protection and easy application properties.

**Reactamine series** hybrid polyurethanes provide both a water- and wastewater-resistant barrier and crack-bridging capability over concrete surfaces. Extreme abrasion-resistant properties with fast-cure capability make Reactamine quite versatile.

**Hydroplate series** linings include single- and multiple-coat solutions offering high-solids, high-build capabilities, fast-cure properties, and the ability for rapid return to service.

### Chemical resistant linings:

**Plasite series** linings are ultra-high performance linings that have been developed for extreme chemical exposure, high-pressure applications, and higher-temperature service. This series includes single-coat, high-build, solvent-free products with fast-cure properties for rapid return to service.

### Secondary containment:

Carboline's combined knowledge of protective coatings and concrete design details ensures complete, long-term protection of these crucial containment areas.

**Dudick** epoxy and vinyl ester coating systems include aggregate-filled and reinforced options designed to withstand aggressive chemical exposures, physical impacts, and frequent traffic.



Scan for more about secondary containment.



## Interior and exterior tanks (steel or concrete), and dam gates

Atmospheric corrosion and years of continuous use create the need for ultra-durable, high-performance coatings for steel and concrete water tanks. Carboline interior linings are certified to the NSF/ANSI/CAN 61 standard, as well as the health effect requirement set forth in NSF/ANSI/CAN 600.

Many of our **Hydroplate series** epoxies are certified for use in potable water. These are thin-film linings that are easy to apply, VOC-compliant, and offer long service life.

**Reactamine series** hybrid polyurethanes are 100% solids, single-coat formulations that provide both a water- and wastewater-resistant barrier and crack-bridging capability over concrete surfaces. These are certified for potable water use with extremely fast return to service times. Extreme abrasion-resistant properties with fast-cure capability make Reactamine quite versatile.

## Potable water ground storage tanks and elevated storage tanks

Carboline primers, intermediate coats, and topcoats offer exceptional protection against extreme conditions created by environmental abuse from wind, precipitation, UV, and acid rain.

### Corrosion-resistant primers for new construction and maintenance:

**Carbozinc® series** primers are zinc-rich primers with outstanding performance in corrosive environments. They offer excellent sub-film corrosion resistance and longevity to match the life of the structure.

**Carbomastic® series** coatings are high-build, surface-tolerant epoxy mastics with excellent adhesion over rusted surfaces and old coatings, providing long-term corrosion protection.

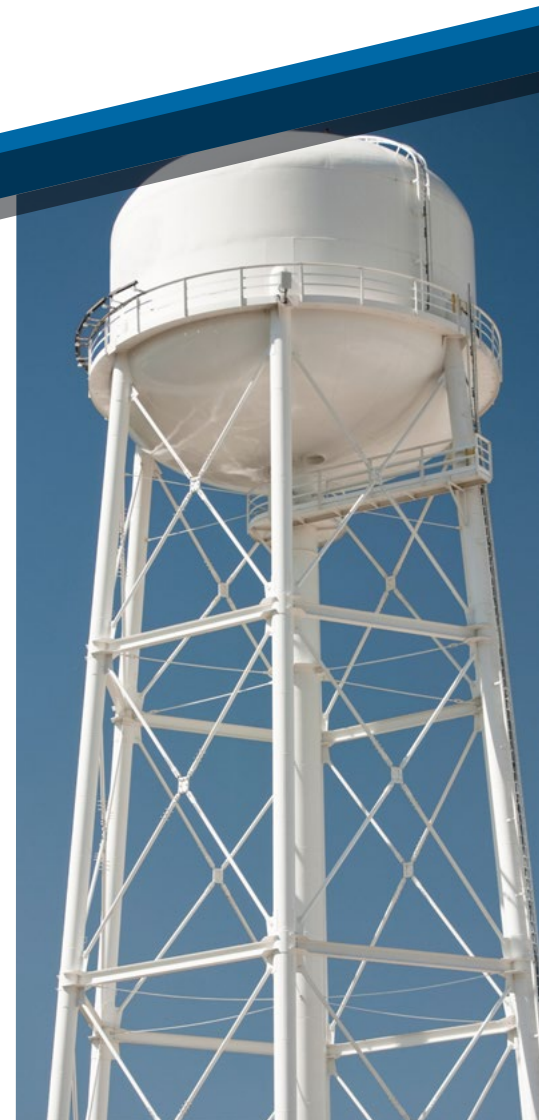


### Weathering finishes:

**Carbocrylic® series** finishes contain advanced waterborne and low-VOC acrylic technology with the weathering and chemical performance of solvent-based systems.

**Carbothane® series** acrylic polyurethanes are high-performing urethanes that provide long-term color and gloss retention and chemical resistance to splashes and spills.

**Carboxane® series** finishes are siloxanes and other ultra-weatherable finishes that provide extreme long-term color and gloss retention due to their outstanding resistance to ultraviolet radiation.



# GLOBAL COATINGS LEADERS™

RIGHT PEOPLE • RIGHT PRODUCTS • RIGHT LOCATIONS

## GLOBAL MANUFACTURING PLANTS

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

**BRAZIL – SÃO PAULO**  
RUA VERGUEIRO 1753/1759,  
3RD FLOOR - VILA MARIANA,  
SÃO PAULO - SP, 04101-000,  
BRAZIL  
PHONE: 55-12-3221-3000

**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

**INDONESIA**  
PT CARBOLINE INDONESIA  
SOLUSI  
WISMA 77, TOWER 1 – 12TH  
FL  
JL. LETJEN S PARMAN KAV 77  
SLIPI, JAKARTA BARAT  
INDONESIA 11410  
PHONE: 62-21-536-3070

**ITALY**  
VIA M. VIGANO' DE VIZZI,77  
20092 CINISELLO BALSAMO  
(MI), ITALY  
PHONE: 39-02-947592.36  
FAX: 39-02-6172687

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

**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

**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**  
DIMET (SIAM) PUBLIC  
COMPANY LIMITED.  
602 MOO 2 BANGPOO  
INDUSTRIAL ESTATE  
BANGPOOMAI, MUANG  
SAMUTPRAKARN  
THAILAND  
PHONE: 66-2-323-2800

**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

**VIETNAM – TINH BINH DUONG**  
LO D, 4R-CN  
KHU CONG NGNIEP MY PHUOC 3  
THI XA BEN CAT  
VIETNAM  
PHONE: 84-08-3822-7684



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