

Oil & gas downstream

Comprehensive corrosion and fire protection



Proven products from the industry leader

Solving our customers' problems is how we got started and after over 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



Carboline protects petrochemical facilities with a comprehensive coating, lining, and fireproofing product portfolio developed for harsh environments worldwide. Fully tested, field-proven products are backed team of technical experts whose guidance is instrumental to solving new construction and maintenance challenges daily.

Product types

- › Outstanding corrosion protection products
- › Surface-tolerant coatings
- › Moisture-tolerant coatings
- › Low-temperature and quick-cure products
- › Ultra-weatherable finishes
- › Chemical-resistant linings
- › Intumescent and cementitious fireproofing

Certifications and listings

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

Affiliations



AMPP™



PROCESS
INDUSTRY
PRACTICES



ATMOSPHERIC EXPOSURES

Structural steel, carbon steel piping, and equipment

Includes all plant steel, piping and equipment operating up to 250°F (121°C) and exposed to plant fallout, fumes, occasional splashes or spills of moderately aggressive chemicals, and normal weathering from ultraviolet radiation.

Primers

Carbomastic® surface-tolerant epoxies can be applied over marginally prepared steel substrates, will tolerate damp surfaces, and can cure at low temperatures for year-round painting in harsh conditions.

Carbozinc® zinc-rich primers provide galvanic protection of steel substrates, excellent sub-film corrosion resistance, and longevity to match the life of the structure.

Rustbond® surface-tolerant, crosslinked penetrating primers and sealers have excellent wetting properties, are highly flexible, and adhere very well to existing coatings while being widely accepting of a variety of topcoats.

Barrier coats

Carboguard® epoxies include a wide range of high-performance, chemical-resistant coatings compatible over zinc primers or applied direct-to-metal (DTM).

Durable finishes

Carbothane® high-performing urethanes provide long-term color and gloss retention and chemical resistance to splashes and spills.

Carboxane® ultra-weatherable siloxanes provide extreme long-term color and gloss retention due to their outstanding resistance to ultraviolet radiation.



High-temperature coatings for piping and process equipment

Elevated temperatures in petrochemical plants require high-temperature coatings for corrosion protection. Insulative coatings keep workers safe, preserve process efficiency, and minimize corrosion under insulation.

Ambient to 350°F (177°C)

Carbotherm® insulative coatings are ideally suited as a protective heat barrier to shield personnel from hot surfaces that are not insulated. They also inhibit heat transfer and prevent cold surfaces from sweating.

300°F to 1000°F (148°C to 538°C)

Carbozinc primers feature high-temperature stability and are particularly useful for protecting steel assets subject to periodic downtime and thermal cycling.

Thermaline® high-heat polymer coatings protect equipment operating at elevated temperatures. They are typically used over Carbozinc primers for long-term performance.



Coatings under insulation

Moisture and chemicals can eventually find their way past the insulation installed on high-temperature piping and process equipment. Corrosion protection coatings developed to withstand thermal and wet/dry cycling are critical for long-term performance.

Ambient to 300°F (148°C)

Carboguard epoxies offer outstanding barrier protection of assets exposed to moisture and moderately aggressive chemicals under wet insulation.

Carbomastic aluminum-pigmented coatings adhere well to power-tool cleaned steel and provide excellent protection to steel under insulation.

Operating up to 1200°F (649°C)

Thermaline modified epoxy phenolic, glass-flake reinforced epoxy novolac, and high-performance inorganic polymer solutions offer unbeatable resistance to chemical exposure as well as wet/dry and thermal cycling under insulation.

PETROCHEMICAL STORAGE

Linings for storage tanks and vessels

Carboline's portfolio of high-performance vessel linings are fully tested and field-proven to ensure petrochemical products stay pure and facility assets are protected for the long term.

Water & potable water storage

Carboguard thin-film epoxy linings are designed for mildly corrosive potable water, process water, and mild chemical immersion service operating near ambient conditions.

Fuel storage

Phenoline epoxy and modified epoxy linings are ideal for crude oil, demineralized water, crude/water mixtures, gasohol, ethanol, fuel oil, jet fuel, biodiesel, and gasoline immersion service.

Harsh chemical storage

Plasite ultra-high performance specialty linings withstand extreme chemical exposure, high-pressure applications, and higher-temperature service. This series includes single-coat, high-build, solvent-free linings that cure fast for rapid return to service.



Secondary containment

Secondary containment of chemicals, wastewater, or fuels is usually required for concrete reservoirs at downstream facilities. 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.

Fire protection of steel

Epoxy intumescent and cementitious fireproofing products provide hydrocarbon and jet fire ratings for the petrochemical industry. They cure to a tough, durable, protective finish with high flexural and compressive strengths that can handle harsh petrochemical exposures.

Cementitious

Pyrocrete® high-density, exterior-grade, heavy-duty cementitious fireproofing materials rated to withstand hydrocarbon pool and jet fires, explosions, and cryogenic spills.

Intumescent

Thermo-Lag® high-solids epoxy fireproofing solutions are the most efficient on the market and formulated to meet a variety of fire protection ratings. Series also includes Thermo-Lag 270, a Factory Mutual-approved and International Electrochemical Commission-certified water-based mastic specifically developed to protect bundled electrical cables.

Pyroclad® ultra-durable epoxy-based fireproofing offers unsurpassed weathering characteristics, low thickness requirements, and excellent hydrocarbon and jet fire protection.

GLOBAL COATINGS LEADERS™

RIGHT PEOPLE • RIGHT PRODUCTS • RIGHT LOCATIONS

GLOBAL MANUFACTURING PLANTS

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