

Protecting Industry from Corrosion



atlas

Mortars/Grouts • Linings • Polymer Floors
Tile Flooring • Coatings • Plastic Fabrications



OVER A CENTURY OF LEADERSHIP

- Well into our second century, Atlas Minerals & Chemicals, Inc. firmly remains a leading supplier of corrosion-resistant construction materials. Atlas earned this reputation by successfully developing products for the toughest industrial applications.
- In the 1930s, Atlas introduced the first hot-pour plasticized sulfur cements, solidifying its place as a corrosion protection pioneer. The cements utilized red shale acid brick in the lining of process tanks.
- Atlas' resin-based products became industry standards in the 1940s. These products include Carbo-Korez®, a phenolic resin mortar, Zerok, a polyvinyl chloride-based coating, and Alkor®, the original furan mortar in the U.S.
- In the 1950s, Atlas introduced Alfane, the first epoxy mortar, and Vitroplast, the first polyester mortar.
- In 1952, Atlas patented the Furnane® Floor System for floors of unprecedented durability.
- In 1956, Atlas introduced Rezklad®, the company's first monolithic topping.
- In 1966, Atlas created Furathane® mortar by combining the chemical resistance of furans with the high bond strength of epoxies.
- In 1976, Atlas began marketing Chempruf® Lining Systems as a way of exploiting emerging resin technology for the protection of steel and concrete.
- In 1984, Atlas introduced the North American market to embedded thermoplastic liners for concrete. Today, Anchor-Lok® remains a superior product for protecting concrete.
- In 1995, Atlas formulated Rezklad® HP Grout, a water-washable novolac epoxy grout for demanding food applications.
- In 1998, Atlas introduced Atlastic® 55 Sheet, a modified asphalt membrane capable of withstanding high temperatures.
- In 2004, Atlas developed Red Furnane® Setting Bed MT with moisture-tolerant technology that eliminates 28-day concrete cures. This technology, also used in Rezklad® E-Concrete Primer and Atlas GC Primer, enables prompt installation within as little as 24 hours of pouring concrete.
- Every Atlas product reflects its innovative spirit and century's long experience — a unique combination of vision and capability that makes for a true industry leader.

THE ATLAS PRODUCT LINE ... ***WHAT'S RIGHT FOR YOU?***

As indicated by the historical overview, Atlas offers a full range of mortars and grouts for tile and brick, polymer flooring materials, linings and membranes for process and storage tanks, plastic fabrications, coatings and specialty brick. To learn more, please review these products and systems on the following pages. Catalogs, product data sheets, installation instructions, and comprehensive corrosion-resistant charts for each product are available upon request.

ANCHOR-LOK® LINING SYSTEMS

By using a unique anchoring system, Anchor-Lok Linings are embedded in concrete, resulting in a durable lining with a myriad of benefits:

Chemical Resistance — to a broad range of acids, alkalis and solvents.

Wide Temperature Range — from -40°F (-40°C) to 275°F (135°C)

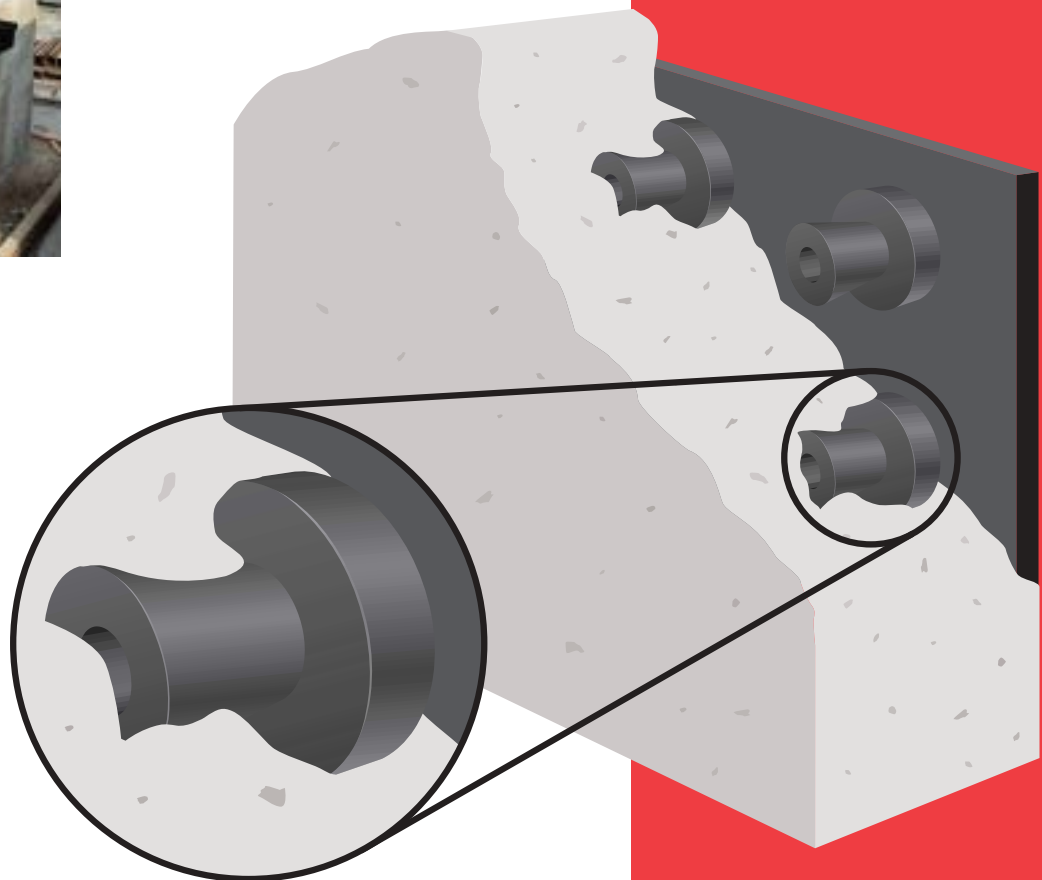
Crack Bridging — Anchor-Lok is not bonded to the concrete surface, expanding and contracting independently allowing the thermoplastic to accommodate movement. The result is a crack-free lining with no need for expansion joints.

Verifiable Protection — Welded seams can be spark- or vacuum-tested for leaks. Automated leak detection systems are also available.

Impact Resistance — The high molecular weights of thermoplastics allow them to withstand more physical abuse than linings based on thermoset resins.

Reduced Construction Time — Anchor-Lok Linings can be prefabricated so on-site construction time is reduced.

Anchor-Lok Linings are available in Polyethylene (PE), High Molecular Weight Polyethylene (HMWPE), Polypropylene (PP), Polyvinyl Chloride (PVC), and Polyvinylidene Fluoride (PVDF).



Anchor-Lok trench (top), Anchor-Lok tanks (bottom),
Prefabricated Anchor-Lok sump (left).



CHEMPRUF[®] LINING AND COATING SYSTEMS

The Chempruf line of products has been protecting concrete and steel for more than 35 years. These systems use the latest resin technology to shield substrates from immersion, splash and vapor exposure. Several of these systems comply with USDA and FDA regulations.

Chempruf Linings and Coatings are based on bisphenol A and novolac epoxy, polyester, vinyl ester and furan resins. They are available in three different series, each designed for unsurpassed performance.

Chempruf 100 Series — Flake fiberglass reinforced for durability and ease of application. They are applied by spray, brush or roller to a typical thickness of 20 to 60 mils for splash, spills, immersion or vapor exposure.

Chempruf 1000 Series — Heavy-duty flake fiberglass system formulated for frequent or continual immersion. They are trowel-applied to a thickness between 80 to 100 mils.

Chempruf 2000/2001 Series — Multiple mat- or fabric-reinforced composite systems for the most severe chemical exposures and where physical requirements are high. They are typically trowel-applied to a thickness of 1/8".

MEMBRANES

A substrate is only as good as the membrane that protects it. That's why Atlas manufactures a number of membranes based on asphalt, urethane and other resins. These membranes can be applied to concrete or steel for flooring, trench, sump and tank applications.

MORTARS

A high-performance mortar is the cornerstone of a successful acid brick installation. Atlas mortars are unsurpassed for workability and superior chemical resistance. The fillers, catalysts and resins are meticulously selected to yield mortars of consistent quality. To successfully meet every customer's process conditions, Atlas manufactures mortars using seven base resins: furan, vinyl ester, phenolic, polyester, epoxy, silicate and sulfur.

GROUTS

In addition to mortars, Atlas produces a complementary line of grouts using furan, vinyl ester and epoxy resins. These grouts are used for tile and pavers in thicknesses to 1-3/8". Rezklad HP Grout is also ideal for re-grout of existing brick and tile floors.

FURNANE[®] FLOOR SYSTEM

By using a high-strength epoxy setting bed with an application-specific vertical joint, the Atlas Furnane Flooring System quickly established itself as state-of-the-art masonry flooring. Now, more than 50 years and 50 million square feet later, Furnane floors still represent the ultimate in durable flooring for the food, beverage and pharmaceutical industries.

ATLAS VTF SYSTEM

The Atlas VTF System uses vitrified tile to provide optimal aesthetics, uniformity and durability, while providing a broad range of chemical resistance. Vitrified tiling combines high compressive strength and low absorption with immunity to impact and thermal shock. The finished floor is chemically resistant to food and its by-products, as well as aggressive CIP and other cleaning compounds. Its sanitary design and ease of clean-ability produce a durable floor for many years of service.



Chempruf containment pit



Chempruf waste treatment tank



Chempruf pit and tank



Atlastic 55 membrane



Chemester mortar in the chest



Carbo-Korez® floor in battery plant



Atlas VTF System in processing plant



Furnane paver floor system in dairy



POLYMER FLOORING SYSTEMS

Atlas offers one of the industry's most complete lines of polymer floor toppings, which include Rezklad® and Ureklad® brand products. These products provide great value by withstanding chemical exposure and physical abuse.

Atlas' polymer flooring systems can be applied by hand or power trowel, broadcast, spray or self-leveling techniques.



Vinyl ester polymer floor

COATINGS

Atlas' thin and high-build coatings are based on a variety of high-performance resin systems. These coatings are appropriate for secondary containment, flooring and structural steel applications.



Epoxy polymer floor

CHEMICAL RESISTANT BRICK

Atlas also supplies specialty, red shale, buff and carbon brick from its facilities and suppliers worldwide.

POLYMER CONCRETE

Atlas' fast-curing polymer concretes are ideal in applications where time is at a premium. Available in vinyl ester, epoxy and furan, these polymer concretes allow floors, pump pads and sumps to be poured and put in service within a matter of hours.



Epoxy floor coating

PLASTIC FABRICATIONS

Atlas designs and fabricates such plastic structures as tanks, fume hoods, ducts, and tank covers. These custom structures are made in its Mertztown facility and shipped throughout North America.



Polypropylene tank covers



Zinc process vessel

SUPERIOR PRODUCTS AND SERVICE, DEDICATED PEOPLE

Research and Development

Atlas maintains a product development laboratory at its Mertztown headquarters. Chemists and technicians continuously enhance numerous product lines. Atlas works closely with customers to formulate products that address their specific requirements. The laboratory also houses pilot plant facilities that are frequently used for training seminars.

On-site Consultation

Atlas' experienced technical sales representatives are able to develop cost-efficient solutions to a variety of customer problems. Atlas provides on-site surveys, technical recommendations, specifications and instructions on product applications. Working hand-in-hand with the home office, they meet the customers' present and future needs.

Technical Service

Whether it's a phone call to ask a question or a request for field supervision, Atlas' technicians are ready to accommodate you. A staff of corrosion-resistant construction experts train customers in the proper installation of the entire Atlas product line.

Manufacturing

Quality manufacturing is a primary goal at Atlas. From raw material selection to the production of finished products, every phase of the manufacturing process is thoroughly monitored. In addition, all Atlas products are tested in accordance with ASTM standards. Atlas' commitment to quality is unmatched in its industry.

Distribution and Logistics

Atlas is located 60 miles north of Philadelphia and 120 miles west of New York City. Established relationships with major trucking lines ensure prompt and economical delivery. Products are also available from a warehouse in Texas and through select foreign licensees. Atlas products are manufactured in China to better serve the emerging markets in Asia and the Pacific Rim.

Customer Service

Atlas' customer service department provides efficient order processing, response to inquiries, and timely, economical shipment of your order.

Epoxy spray floor system



Chemical resistant brick



Epoxy novolac floor systems



Polypropylene process tank



Plastic scrubber fabrication



Precast polymer concrete



Represented by:

For qualified and objective
recommendations to solve
your corrosion problems ...

ask Atlas,



**we have a world
of answers.**

atlas

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