

Atlas FURNANE® System



atlas

The best protection for FOOD
and BEVERAGE PLANT FLOORS

FURNANE SYSTEM

food and beverage plant floors engineered for maximum protection against chemical attack, bacteria and physical abuse.

ATLAS developed and patented the FURNANE Floor System in 1952 after many years of research and study of the flooring problems found in the food and beverage industries. ATLAS, a pioneer in the manufacture of corrosion resistant materials of construction, combined the properties of compatible resins with new construction principles to produce a floor that is far superior to any other floor system ever developed for the food industry. Over fifty million square feet of FURNANE floors have been installed worldwide since its introduction.

ATLAS FURNANE floors meet the strictest food plant facility sanitary requirements. They resist attack from corrosive food products and aggressive cleaning agents. The FURNANE floor offers excellent abrasion resistance over a broad range of temperatures and is unaffected by everyday forklift traffic.

Because of its resistance to most food acids, alkalis, oils, greases, salts, solvents and detergents, the FURNANE Floor System is ideal for use in all types of food processing, preparation and service operations including meat packing plants, dairies, breweries and institutional kitchens.

The FURNANE Floor System provides long term performance in areas where portland cement grouts, floor sealers and coatings will fail due to chemical attack, thermal cycling or the physical abuse inherent in most food processing plants.

Only ATLAS FURNANE floors, developed specifically for food and beverage plants, provide the broadest range of resistance and longevity for your floor investment.



ADVANTAGES OF ATLAS FURNANE FLOOR SYSTEM

EXCELLENT CHEMICAL RESISTANCE

- Resistant to food acids, alkaline detergents, industrial cleaning agents, bacteria, acids and other related corrosives
- Specific joint selection is based on the intended service conditions

SANITARY

- Jointing materials will not allow bacterial growth
- Easily maintained
- Virtual elimination of product contamination

HIGH THERMAL RESISTANCE

- Unaffected by steam and hot water washdowns
- Brick and tile act as a thermal shield for the substrate

LONG LASTING

- Many floors have been in continuous operation for more than 30 years
- Floors perform their function, maintain their appearance and provide a greater return on investment every year

ATTRACTIVE APPEARANCE

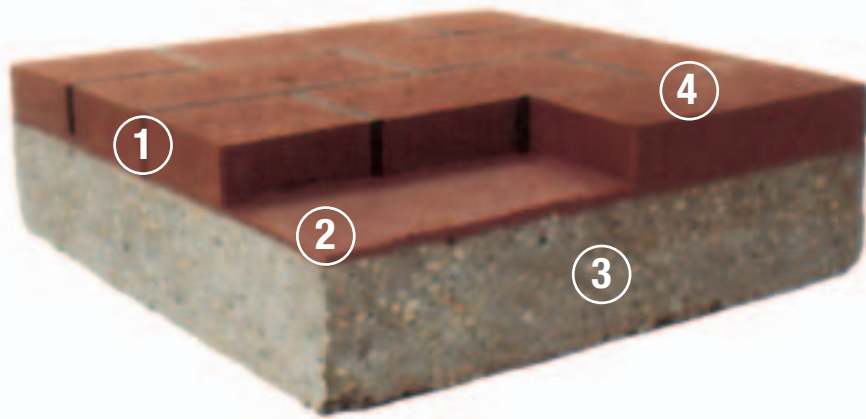
- Floors, coupled with sound engineering techniques and quality installation methods, create a distinctive and attractive look
- Do not show wear or traffic patterns
- Appearance does not change or fade over years of use

VERSATILE—EASY TO INSTALL

- Installed with Tiler's or Bricklayer's method of construction
- RED FURNANE acts as the setting bed, firmly locking the brick or tile to the concrete substrate
- Full and homogenous joints are installed using a number of resinous mortars and grouts

AN ENGINEERED SYSTEM

Design variables, including tile or brick selection, expansion joint placement and choice of joint material, allow the system to be completely customized for virtually every floor within a food and beverage processing facility



FURNANE SYSTEM

A long-lasting, corrosion-resistant floor originally developed and patented by Atlas featuring dual cement construction

1 JOINTS

The FURNANE Floor System's first barrier to corrosive attack

- GROUTS are designed for Tiler's method of installation
- MORTARS are intended for the Bricklayer's method of installation
- FURATHANE GROUT and MORTAR and CARBO-ALKOR MORTAR are unique carbon-filled furan products that provide high-bond strength, temperature resistance to 370° F (188° C) and are ideal for facilities with fryers and other elevated temperature processes
- REZKLAD WATER WASHABLE GROUT and MORTAR provide a broad range of chemical resistance and may be installed without wax on the brick or tile in areas with less aggressive chemical exposures
- REZKLAD HP GROUT and REZKLAD HP MORTAR have chemical resistance similar to furan resin based products and withstand cleaning compounds containing sodium hypochlorite, nitric acid, chlorine and other halogens that are used in many food and beverage processing plants
- CHEMESTER GROUT and MORTAR have excellent chemical resistance and are commonly used in new construction of CIP rooms and areas with very aggressive sanitation compounds

2 THE BED

Bonds all elements of the floor into one physical and corrosion resistant unit

- The protective barrier beneath the tile or brick, used in conjunction with any of the joint materials

- RED FURNANE Setting Bed is used as the bed joint for both installation methods
- Provides tenacious adhesion and outstanding chemical resistance
- Moisture-tolerant RED FURNANE MT allows for installation on damp surfaces as well as new concrete only five days after concrete is poured

3 CONCRETE SLAB

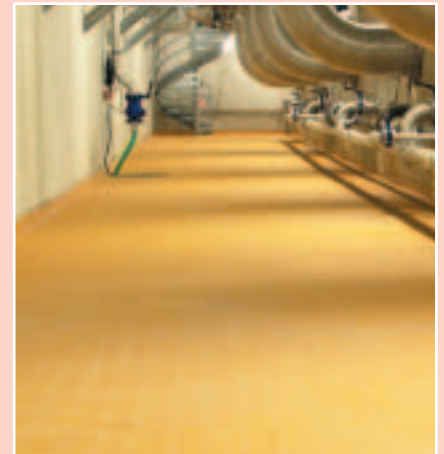
Constructed in accordance with sound engineering practice

- Finished elevation of the slab or sloping bed accommodates the thickness of the setting bed and masonry unit
- Pitched to a minimum of 1/8" per foot to all drains and trenches to provide adequate drainage
- Expansion and control joints should be placed with consideration given the requirements of the base slab, the tile or brick being used, the surrounding structure and the intended service conditions

4 TILE AND BRICK

Determined by the floor's intended use

- Smooth surface, abrasive surface and non-skid surface texture tile and brick are available to meet virtually any flooring requirements
- Ultimate thermal resistance of the system is based on the thickness of the tile or brick used
- Vitrified tile offer a broad range of colors, dimensions and surface finishes



ATLAS FURNANE INSTALLATION METHODS

TILESETTER'S METHOD

- RED FURNANE Setting Bed is trowel applied to the properly graded substrate
- Tile, brick or pavers are placed in the bed joint of RED FURNANE Setting Bed with a nominal 3/16"-1/4" space between the masonry units
- GROUT is floated into the open joints after the bond coat has set

BRICKLAYER'S METHOD

- RED FURNANE Setting Bed is trowel applied to the properly graded substrate
- MORTAR is applied to two sides of the brick and placed into the wet RED FURNANE Setting Bed
- The brick are placed to attain a nominal 1/8" wide joint



Represented by:

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

ask Atlas,



**we have a world
of answers.**

atlas

Atlas Minerals & Chemicals, Inc.

1227 Valley Road • P. O. Box 38

Mertztown, Pennsylvania 19539-0038

610-682-7171 • 800-523-8269

FAX 610-682-9200 • E-MAIL sales@atlasmin.com

www.atlasmin.com