

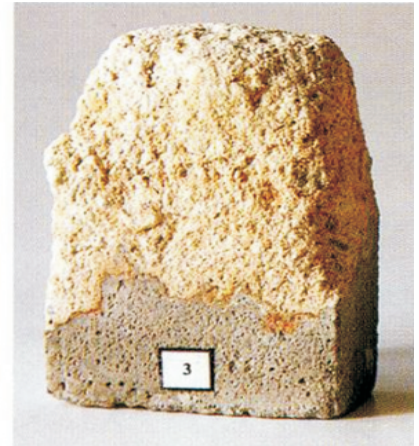
# Preservation Through Waterproofing Cement Based Coating Liquid Services

**K**almatron Corporation is the manufacturer and supplier of its products for the building industry on the world market by appointed agencies and companies.

The idea of Kalmatron was conceived by Dr. Alex V. Rusinoff in the year 1982, resulting in the theory about different mechanisms of cement grain decay-hydration, which gave rise to numerous technologies for repair and building of new structures with the highest performance of durability. First official production began in 1992. Experimental approval of the Kalmatron theory "Rusinoff's Osmotic Oscillator" was published by the Dundee University, Scotland, in 1990. Patents and trademarks of Kalmatron®, K100®, and Krete100 are registered in the USA and internationally. Specifications of the products are provided and published by the U.S.A. official specifier ARCAT.

## An insight on Kalmatron Waterproofing Service

Kalmatron also known as KF-B, is a protective waterproofing and anti-corrosion coating for concrete and masonry structures. KF-B penetrates into concrete and masonry so that even if



[Above: a concrete block that was coated with KF-B (at left) and another concrete block without the KF-B coating (at right). Both blocks were submerged in a 25% Sulfuric Acid solution - a highly corrosive acid that is present in sewer systems. The unprotected block shows significant corrosion and mass loss]

it is chipped off, that surface will still be completely waterproof.

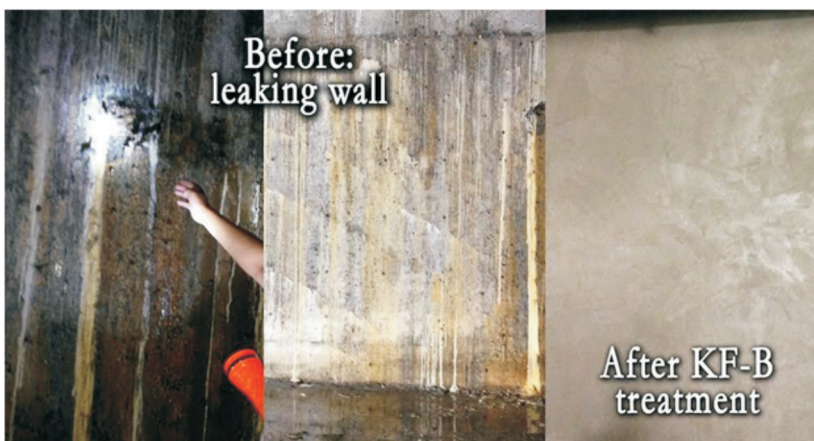
KF-B is a dark-gray powder that is mixed with water in a ratio of 3 parts KF-B to 1 part water by volume. It becomes a sticky, highly adhesive paste when wet and is applied by brush, roll, or trowel directly onto the leaking surface. The coating thickness starts at just 0.11" (3 mm) - or about the thickness of two-quarters stacked together. Cementitious products are probably the easiest waterproofing

materials to use. They're readily available from suppliers of masonry products, and they're easy to mix and apply. If you plan to use this material, a long-handled brush will make your life easier.

## Prominent Features Of Kalmatron:

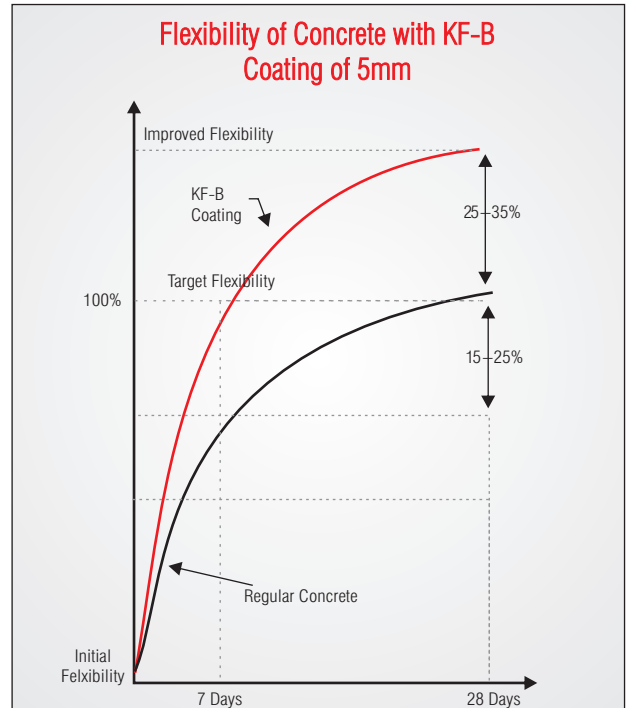
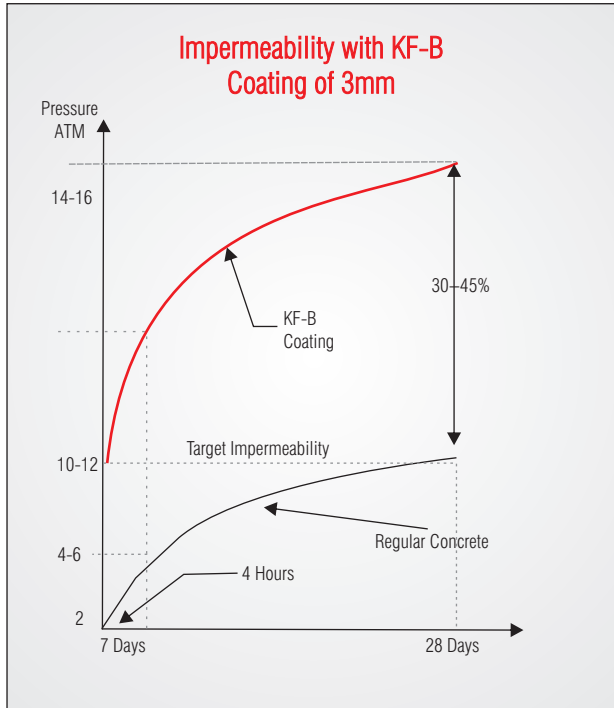
The salient features of KF-B solution are:

- Waterproofing and repair compound
- Stops seeping leaks in basements, garages, pools, tunnels, ceilings, walls, floors, and foundations
- Surface of application must be wet no need to dry it before applying the - KF-B coating
- No need to chemically clean the surface before KF-B application - no acid wash is needed
- Inhibits mildew and algae growth
- 100% waterproofing from both sides no membranes needed
- Sets in 15 minutes, hardens completely in 45 minutes
- Non-polymer based, VOC free
- Won't lift, bubble, peel or flake
- Adheres to concrete, brick, stone, stucco, and cement bonded particle and fiber board sub-floors



[Above, left: leaking wall (nicknamed "The Waterfall") that was treated previously by epoxies, but continued to leak. At right is the same wall after a coating of KF-B was applied. The surface is now completely dry]

COMMUNICATION FEATURE



- No surface sealants are needed
- For interior or exterior use
- Color: gray
- Surface can be painted
- Pigment can be added

Resistance Power:

KF-B's defiance is outstanding. Some of its noteworthy features are:

- KF-B is 100% waterproof and provides the highest resistance to chemical and environmental corrosion

- KF-B works in acidic, alkali and petroleum-rich environments, such as sewers and chemical and agricultural facilities
- Easy to use - mix 3 parts KF-B with 1 part water for 30 seconds by trowel or electric mixing drill
- A 0.11 inch (3 mm) coat of KF-B restores 100% liquid and gas impermeability and increases compressive strength
- Increases freeze-thaw and abrasion resistance

- Can be applied by brush, roll, spray or mortargun
- Stops leaks and seeping, prevents growth of algae
- No surface cleaning or drying is required prior to KF-B application
- Initial setting time: 15 minutes
- Final hardening time: 40 minutes to 1.20 hours
- Compressive strength: 25 MPa
- Consumption 1 lb/ft<sup>2</sup> (for an 0.11" thick layer)

