

Keraben

blue&green 

LIFEKER<sup>[R]</sup>

Takes care of the environment, takes care of you.



# LIFEKER®

## NATURE CONSTRUCTIVE CERAMIC

The incorporation of advanced functionalities in ceramic is a differential aspect that is taking an increasing relevance in nowadays architecture.

KERABEN has developed a new ceramic concept where sustainability, healthcare, and environment are taking protagonism as a complement of the unbeatable properties of our porcelanic tiles.

Within this new concept, KERABEN has developed LIFEKER, an innovative range of porcelain products which incorporates advanced photocatalytic functionalities.

## LIFEKER TAKES CARE OF YOU

Repels dirt: The accelerated photocatalytic oxidation produced in the LIFEKER porcelain surface, causes fat decomposition which is the main dirt support frame onto surfaces, avoiding dust particle deposition and fixing in the ceramic surface, at the same time decomposes the organic dirt contained in those particles.

Bactericide, Fungicide and Anti-Mites: The accelerated oxidation ability destroys the protecting membranes of the organisms preventing its proliferation in the tile surface, while keeps the initial clean aspect of porcelain in tiles through out time.

## LIFEKER TAKES CARE OF THE ENVIRONMENT

Reduces Volatile Organic Compounds (VOC's) and NOx: A huge amount of the atmospheric pollution in our cities is mainly cause by these components. Photocatalytic oxidation produced in the LIFEKER Porcelain surface, degrades NOx converting them into no toxic Nitrates as well as increases their solubility what fosters the disappearing of the tile surface by rain water dragging. Volatile Organic Compounds are eliminated in the same way as fat or alive organisms, loosing their bad effects for the environment.

These functional properties make LIFEKER porcelanics the best solution for environments, mainly outdoors where damaging microorganisms, cleaning requirements, high humidity or pollution reduction are a differential feature from the architectural point of view [ facades, terraces, wet areas, high clean applications] or use [ hotel, nurseries, healthcare centres, gyms, restaurants laboratories, pools, wet garden areas].

In this way LIFEKER guarantees hygiene and disinfection in every surface taking care of the environment and users health through all their life.



**A FUTURE CONCEPT PRODUCT THAT KERABEN GIVES YOU IN THE PRESENT**

### What is LIFEKER® system?

It's a functional porcelanic tile with an 150 nm inorganic coating with a photocatalytic capacity to repeal dirt, pollution and microorganisms growth.

### How does LIFEKER® work?

With humidity's help, LIFEKER decomposes the organic components located in dust particles and at the same time facilitates its retrace by water action without using any kind of detergent.

### How does LIFEKER® removal acts over pollution?

Life ker photocatalytic action decomposes Nitrogen oxides [NOx], transforming them into nitrates, which are withdrawn from the surface by the action of cleaning rain water.

### How does LIFEKER® acts over microorganisms?

With the same mechanism of decomposition of organic pollutants in presence of humidity [ dampness] and light , LIFEKER destroys the microorganisms with a minimal level of light.

### Is LIFEKER® acción permanent in time?

The photocatalytic ation of LIFEKER is not altereded in time, because theTitanium Oxide [TiO2] does not take part in the reaction of oxidation, but it's the catalyst, allowing this reaction with the standard levels of light.

### Does LIFEKER® maintain its use properties?

The active covering keeps inaltered its waste capacity, as well as all its aesthetic and use properties with respect stardard porcelanic.

### Which are LIFEKER® advantages compared to other selfcleaning and bactericides solutions?

- LIFEKER keeps inaltered the basic features of porcelain tile without modif iying its aesthetics.
- LIFEKER shows greater antipollutant capacity than the solutions integrated in the glaze.

## 17m2 of Lifeker are equivalent to one tree

- LIFEKER can be applied on a part of a bigger product batch.
- LIFEKER can be used either in outdoor or indoor spaces.

