# SURFACE HARDENER



## PRODUCT DESCRIPTION

It is a dust resistant and abrasion resistant coating applied to fresh concrete surfaces with chemical additives containing cement, quartz and pigment.

## AREAS OF UTILIZATION

It is applied on horizontal floors indoors and outdoors. Main application areas are; factories, gas stations, park-garden pedestrian paths, business centers, loading and unloading areas, surfaces exposed to heavy traffic, parking lots and garages.

## ADVANTAGES OF THE PRODUCT

## A smooth, bright and homogeneous surface is obtained.

## It prevents wear against mechanical loads.

## It increases the impact resistance of the surface.

## It prevents dusting of the applied surface.

## It facilitates cleaning on applied surfaces.

## It reduces the water absorbency of concrete.

## PREPARATION OF THE SURFACE

* After the base concrete is poured in slabs, it is leveled with a vibratory gauge.
* When the base concrete sets in a way that leaving a footprint is possible, the tray should be finished with a tray trowel and the surface should be mastered.

## APPLICATION

## Two thirds of 25kg YurtKim Surface Hardener is spread homogeneously on the surface and it is expected to be moistened evenly on all sides (color change should be observed).

## The material is fed into the concrete by finishing it with tray trowel and it is integrated into the concrete.

## The remaining one thirds of the material is spread homogeneously on the floor in the same way and it is expected that all sides of it will be moistened (change color) evenly.

## Then, it is fed to the surface with a low-speed tray trowel and integrated into the YurtKim Surface Hardener concrete.

## After providing the surface hardness that can be walked on, the material is finished with a high-speed machine to obtain a quality surface.

## After the surface hardener application is finished, the curing material, YurtKim Acrylic Curing Additive should be applied to the surface in order to prevent shrinkage cracks and to ensure dust-proofing.

## Joint cutting should be done as soon as possible. If it is carried out late, the cutting process will be difficult as the concrete will reach its strength and unwanted concrete cracks may occur on the surface.

## In order to prevent possible color change on the applied surface, it is necessary to sprinkle YurtKim Surface Hardener as much as possible.

## TECHNICAL SPECIFICATIONS

## Reaction to Fire: A1

## Powder Density: 1500±300 kg/m3

## Compressive Strength: ≥ 35 N/mm2

## Bending Strength: ≥ 7 N/mm2

## Wear Resistance: ≤ 4 cm³/ 50 cm² (Böhme)

## Serviceable after: 24 hours

## Consumption: 4-6 kg/m2

## The above data was obtained based on the results of laboratory tests, and values may vary due to differences in the construction site environment.

## WARNINGS AND SUGGESTIONS

* + Do not breathe directly. In case of contact with eyes, wash with plenty of water and consult your physician if necessary.
  + No material (cement, lime, etc.) should be added to the prepared mortar.
  + It should not be applied to very hot or frozen surfaces that have been exposed to the sun for a long duration.
  + In terms of durability of the product, the surface should be watered at regular intervals within 7 days after the application (if curing liquid is not used).
  + After application, hands and application tools should be washed with plenty of water.
  + Always use gloves during application.
  + YurtKim is not responsible for any issues or damages arising from the use of the product for purposes other than those specified, failure to comply with the specified storage, maintenance and application conditions, or incorrect application.

**COLOR**

Grey, Red, Green

**SHELF LIFE**

Shelf life is 12 months when stored in its unopened original package in a way that is not exposed to moisture, dry and direct sunlight, provided that it is placed in a maximum of 8 rows on top of each other.

**PACKAGING**

25 kg± 2% Kraft bags (64 bags on a pallet, 1600 kg)