



Chemical Hardener

ULTRA-HARD (NEW FORMULA)

PRODUCT

It is a chemical hardener and densifier with sodium silicate base, ready to be applied on concrete floors or any other cement base surfaces. It is a transparent liquid, odorless and free of solvents. **Ultra-Hard** was developed to seal and augment the abrasion resistance of concrete, leaving the surfaces free of dust caused by the constant traffic. It can be applied either on new or old floors. A minimum of 7 days shall be waited when floor was just finished.

SEGMENTS OF USE

- Concrete floors in general
- Old floors that are emitting dusts
- Gas station floors - Lapidated floors
- Chip floors and etc...

BENEFITS

Cure: Helps to cure the concrete floors.

Seal: Reduces the natural porosity easing the cleanliness.

Harden: Augment abrasion resistance in 30%.

Eliminate the dusts: Due to its combination with alkali salts, it fills the concrete porous with tiny crystals.

Adhere: Prepares the floor surface to receive any kind of finishing.

EQUIPMENT FOR APPLICATION

Broom with soft bristles, low-pressure sprayers, squeegees, buckets and hoses

APPLICATION

Its application is done in the form of saturation until the product does not penetrate the surface anymore, then creating a chemical reaction with alkali and free lime of concrete, allowing the surface to become hard and dense.

Ultra Hard can be applied on floors of any age.

GREEN FLOORS

No special procedure is recommended, it can be applied upon finishing.

CURED FLOORS

Have to be washed with clean water to eliminate all the dusts. Should the floor have been already contaminated with greases or oils they ought to be washed with neutral pH degreasers and water as many times as needed until the surfaces become clean.

FLOORS WITH CHEMICAL CURE OR PAINTED

Shall be removed mechanically.

SMOOTH OR ROUGH FLOORS

Spray or pour undiluted **Ultra Hard** over the surfaces spreading it with a soft bristles broom for a period of 40 minutes. When the surface is slippery, spray water and spread it for 40 more minutes, this helps the penetration of the product. After this period, rinse the rest of it with a little water and remove the excess with a squeegee.

Avoid leaving puddles of product over the surface upon application.

CLEANING THE TOOLS

Wash them with clean water until they are completely free of product residue.

Care: Avoid contact of Ultra Hard with glasses.

PHYSICAL PROPERTIES

CHARACTERISTICS	RESULTS
Appearance / Odor	Colorless and odorless liquid
Flame point	Non – existent
Flammability Limit	Non – existent
Vapor and gas emission	Non – existent
Brookfield viscosity	26 ± 4
PH	10 to 12
% Solids	14% ± 2
Density	1,10 to 1,15 g/cm ³
Age of Application	7 days for new floors
Number of Application	1 (one)
Vitrification / penetration	6 mm

CHARACTERISTICS AND PERFORMANCE

Chemical composition	Sodium silicate
Physical State	Liquid
Package	200L drum and 50L bucket
Yield	200L drum yields 1000 m ²
Drying Time	2 or 3 hours depending on temperature.

WARRANTY

The surface must be hard and solid without releasing of dust. The product does not guarantee the structural part of the floor, but only the superficial layer.

CLEANLINESS AND SAFETY

Users must use safety glasses and rubber gloves. Direct contact with the skin should be avoided (can cause irritation). In case of contact with the skin or eyes, wash immediately with abundant water and consult a doctor and inform the type of product. Keep out of the reach of children and animals and sources of heat.

STORAGE

Ultra-Hard should be stored in a dry location, covered and ventilated at 25°C (77°F).

VALIDITY

Indeterminate, kept in original into original sealed packaging.