

# Floorseal SH300

## Concrete Floor Hardener

### Product Description

**Floorseal SH300** is a water-based floor hardener based on lithium silicate, non VOC and eco-friendly.

**Floorseal SH300** is used to protect surfaces, prevent abrasion and prevent dust, applied on concrete floors to resist the friction of rubber wheels and high-density pedestrians.

**Floorseal SH300** penetrates deep into the pores of the concrete surface, interacts with excess lime to form an insoluble crystalline compound, seals the capillaries of the concrete, making the concrete surface more solid and hard, resistant to abrasion, dust generation, and protects the surface against the erosion of oil, grease, water, impurities and dirt.

### Application

**Floorseal SH300** is recommended for new or old concrete floors such as:

- Supermarkets, Distribution Centers, Showrooms, Parking Lots, Warehouses, Factories
- Car Service Workshops, Manufacturing Facilities, Grocery Stores, Shopping Malls
- Stadiums, Pharmaceutical Plants, Textile Plants, Breweries, Food Processing Plants
- Dairy Plants, Canning Plants, Restaurants, Cafes, School Yards, Mechanical Workshops.

### Advantages and benefits

- Eco-friendly, non VOC
- Increases concrete compressive strength
- Increases abrasion and impact resistance
- Increases the density of concrete surfaces
- Dustproof, reduces dust accumulation and easy to clean
- Long-last shine finishing
- Low maintenance costs.

### Specification

Product base	Modified lithium silicate liquid
External appearance	Colorless transparent
Odor	None
Density	1.10 – 1.20 kg per liter
Flammability	None
Construction temperature	From 5°C to 35°C
Material consumption	0.12 – 0.2 liter / m <sup>2</sup> – depends on the absorbency of the concrete surface
Packaging	10 liters / 25 liters / 200 liters Plastic container
Expiry date	24 months
Storage	Store in cool and dry place at temperature below 5°C

### Mechanical parameters

Abrasion resistance	ASTM C779 – increase 200 - 400%
Impact resistance	ASTM C805 – increase > 13%
Compressive strength	ASTM C39 – increase gia tăng 25 - 30% sau 3 ngày
Aging	ASTM G23 – UV rays and water do not affect the surface applied <b>Floorseal SH300</b>

## Using Instruction

### Surface preparation

- **Existing concrete:**
  - Concrete must be clean, free of dust, oil, grease, paint or other contaminants that may affect penetration
  - Cracks and voids must be filled with adchem's **Acotop** product.
- **New concrete:**
  - New concrete must be cured for at least 72 hours. Ideally, concrete should be cured for 7 days
  - Removal of concrete curing agents or other coatings may affect the penetration of **Floorseal SH300**.

### Construction steps

Apply one layer of Floorseal SH300 to saturate the concrete floor surface by spraying or pouring. The concrete floor will absorb the solution within 1 hour. Apply the second layer when the surface has completely absorbed the first layer (in case of highly absorbent surfaces). After the second layer is completely dry, use a cleaning machine and rinse off any excess material and powder on the floor surface. If you don't follow this instruction, the floor may in loss of gloss, abrasion and slipperiness when exposed to water.

- **Floor polishing:**
  - Wait for Floorseal SH300 to dry completely within 1 to 2 days. Use a professional floor polishing machine, polishing with different pad levels.
  - After finishing the polishing process, clean with clean water, industrial cleaning machine and vacuum.

### Notes and limitations:

- Only apply on concrete surfaces above 50C.
- New concrete must be finished with a power trowel.

### Safety and health protection

- **Floorseal SH300** is an alkaline product, so avoid contact with skin and eyes. If contact with skin, wash immediately with clean water. If contact with eyes, use a large amount of clean water to rinse eyes several times, use eye drops and go to a medical facility immediately, health protection methods are all listed in the product safety data.
- When applying by sprayer, avoid breathing water mist.
- Protective glasses, gloves and rubber boots must be worn during application.



Before completion



After completion

## Application



These images are for reference only



### adchem Joint Stock Company

Address: 3.11 OT-XO Sunrise City North, 27 Nguyen Huu Tho street, Tan Hung ward, district 7, Ho Chi Minh city, Vietnam

Tel: (+84) 28 3773 0668

Tax code: 0302749902

Email: info@adchem.vn

Website: www.adchem.vn