

Floorseal *Sh320*

High gloss liquid floor Hardener (Sealer, Densifier and Dustproof)

Product description

Floorseal Sh 320 is a VOC free, environmentally friendly water based lithium silicate conjunction with polymer and silane liquid applied concrete floor hardener. This product is designed for treatment of uncovered concrete floor surfaces that will be exposed to medium to high volume of rubber wheeled and pedestrian traffic. The floors is after applied, Floorseal sh 320 penetrates deeply into the surface pores of concrete, reacts with the free lime, to produce water insoluble crystallization gel, that gel fills the pores of concrete to densify, harden, dustproof and sealed the surface against petroleum, dirt, water and other mild contaminants.

Application areas

Floorseal Sh 320 is recommended to uses on industries and commercial, new or existing concrete floor:

- Supermarket. Distribution centers. Showroom. Car parks. Warehouses. Factories. Automotive service areas.
- Workshop. Grocery stores. Bakeries. Shopping malls. Stadiums. Pharmaceutical plants. Textile plants.
- Food processing plants. Dairies. Breweries. Canning factories. Restaurants. Coffee shop. School yards. Mechanical room...

Features & benefits

- VOC free, environment friendly.
- Increases concrete compressive strength.
- Increases concrete surfaces abrasion, impact strength and wear resistance.
- Dust proof for concrete surfaces.
- Petroleum oil, water and mild contaminants resistance.
- Increases densities of concrete surfaces.
- Reduces dirt binding and easier cleaning.
- Long lasting shining with polishing application.
- Low maintenance cost.

Technical specification

- Material based: Lithium silicate modified with polymer and silane and additives.
- Appearance: white liquid.
- Odor: Odorless.
- Specific gravity: 1.10 – 1.15 kg/liter.
- Application temperature: from 5°C to 35°C.
- Packaging: 25 liters and 200 liters pail.
- Shelf life: minimum 24 months from MFG date.
- Storage: keep in dry conditions at a temperature of 5°C to 45°C.
- Flammability: Nonflammable product.
- Coverage rate: 6m² – 8m²/ liter, depending on the surfaces porosity.

Physical properties (Compares to un-treat concrete).

- Abrasion resistance: ASTM C 779 – increase - 200-400 %.
- Impact resistance: ASTM C805 – increases > 13%.
- Compressive strength: ASTM C39 – increase 25 - 30% after 3 days application.
- Aging: ASTM G23 – UV and water do not affect to the applied surfaces of Floorseal **Sh 320**.

Application Instructions

Surfaces preparation

Existing cured concrete:

- The concrete must be clean, free of dust and free from oil, grease and paint.
- Remove all contaminants and laitance from the concrete surfaces to assure maximum penetration. Cracks and holes should be repaired using **Acofix** repair mortar system.

New concrete:

- The new concrete must be cured at least 72 hours. Remove any curing membrane or coating which may prevent **Floorseal Sh 320** from penetration. For best results **Floorseal Sh320** should be used on concrete in seven days cured.

Application

- Apply one saturating coat of **Floorseal Sh 320** by spraying, spread uniformly on concrete floor. The floor will absorb the solution within 1 hour. Apply the second when the surface completely absorbs the first coat. After the second coat has been dried, wash off with clean water and remove any residue and dried powder of **Floorseal Sh 320** on the surface by cleaning machine. Failure to carry out the washing off stage may result in a surface sheen which can abrade during service and may be slippery in wet conditions.

Polished concrete floor:

- Waiting for **Floorseal Sh 320** dries within 1 to 2 days. Use the professional floor polished machine; polish the floor with polish pad with different levels.
- After the floor is completely polished, clean the surface with clean water and vacuum cleaner.

Limitation:

- Only apply when the concrete temperatures are 5°C and rising.
- New concrete must finish with power trowel.

Health and safety

- **Floorseal Sh 320** is alkaline and should not come into contact with skin or eyes. Avoid inhalation of any air born spray. Safety glasses, gloves and rubber boots should be worn. If contact with skin occurs wash off with clean water. If splashes to eyes occur wash immediately with plenty of clean water and seek medical advice. Full health and safety data are given in Material Safety Data Sheet.

