

# PC Floor LiSi



Liquid densifier, sealer and dustproof for concrete

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## Product Overview

PC Floor LiSi is a water-based lithium silicate solution used to make the concrete surfaces dense, sealed and dustproof. It penetrates and chemically reacts within the concrete surface, producing extremely hard and dense calcium silicate hydrate (CSH) in the pores. Hence resulting in the concrete as more durable, easier to clean, and more resistant to wear from water and mild chemicals. Since the lithium silicate-concrete reaction occurs inside the concrete, the products of reaction remain inside the concrete only. The protection of PC Floor LiSi never casts or scales off and remains unaffected by moisture, and lasts much longer than other surface sealers and coatings.

After curing it exhibits tremendous mechanical properties typical to those of epoxy compounds; resistance to oil, grease, petroleum, salts, most of the concentrated corrosive materials

## Areas of applications

1. Interior concrete floors
2. All commercial, retail & warehouse floors
3. Manufacturing plants, factories & workshops
4. Transportation terminals
5. Institutional floors
6. Hospitals

## Properties

1. PC Floor LiSi seals, densifies and makes concrete dust proof in one operation.
2. It is water based. Hence contains no VOCs.
3. Concrete treated with PC Floor LiSi is more

dense and durable.

4. Treatment of concrete with PC Floor LiSi is a permanent one. Never peels off, or fades away.
5. Maintenance of concrete becomes easier after treating with PC Floor LiSi.

## Guidelines for Usage

PC Floor LiSi should be used directly from the container and requires no dilution or premixing.

**1. Surface preparation (New concrete):** Cure the concrete by a wet or sheet cure method in accordance with BIS norms. To maximize strength and other physical properties of the concrete slab, new concrete should be cured for seven days or longer prior to the application of PC Floor LiSi. For fast-track projects, the cure time may be reduced at the discretion of the project engineer. If a curing compound is used, it must be completely removed before application of PC Floor LiSi. After the curing compound is removed, let the slab to air dry a minimum of 24 hours prior to application. Insufficient drying of the concrete will prevent full penetration of PC Floor LiSi, reducing its effectiveness.

**2. Surface preparation (Existing/Old concrete):** Clean the concrete surface and make it free of any materials that could prevent penetration of PC Floor LiSi, such as curing compounds or cure & seals, paints, coatings, dirt/oil, waxes, etc.

**3. Application (New/Old concrete):** Air temperature during application must be between 5°C and 40°C for proper chemical reaction of the

PC Floor LiSi to occur. Apply a single coat of PC Floor LiSi using a low-pressure sprayer equipped with a 2 L/min spray tip. Apply at a coverage rate that results in a uniformly wet surface without puddles. While PC Floor LiSi is still wet, use a soft-bristle broom or microfiber pad to redistribute and evenly spread out the material. Do not continue to brush or spread out PC Floor LiSi once the product begins to dry. Keep the floor wet with PC Floor LiSi for 5-10 minutes.

Do not allow excess PC Floor LiSi to puddle and dry on the floor. This may result in a white residue that must be removed immediately with scrubbing.

If immediate surface shine is desired, dry buff or burnish the floor with a polishing pad appropriate for the desired end gloss result.

**4. Floor joints:** If the floor joints are to be filled after PC Floor LiSi has been applied, they must be thoroughly cleaned before installation of joint filler. Cleaning joints by circular concrete saw or a grinder equipped with a wire wheel is recommended.

## Coverage area

1 ltr of PC Floor LiSi will cover from 6 to 12 m<sup>2</sup> of concrete depending upon the texture and porosity of the surface.

## Packages available

PC Floor LiSi comes in a packaging of 210 kg HDPE drums.

## Storage and Shelf life

PC Floor LiSi has 12 months shelf life when stored in original, dry and unopened packs.

## Safety Measures

1. Protect PC Floor LiSi from freezing. In the event of freezing, thaw and stir or agitate before using.
2. Protect metal, glass, wood, paint or brick from contact with PC Floor LiSi. If accidentally oversprayed on these surfaces, wash the surface with clean water immediately.
3. If added abrasion resistance is required in new construction, consider the use of a dry shake floor hardener i.e. PC Floor HD.
4. Allow the product to dry for 6 hours at 21°C before exposure to foot traffic or rain.
5. Wear proper safety precautions prior to application.

For further information related to application and safety precautions, please contact MCrete technical representative.

## Technical data

|                  |                    |
|------------------|--------------------|
| Aspect           | Clear, thin Liquid |
| Specific Gravity | 1.10 - 1.20 g/cc   |
| pH               | Min. 12            |
| Solids content   | 15 %               |
| VOC content      | 0 g/L              |
| Freeze point     | 0°C                |

For further clarifications Please contact on below address

### Pinjala Chemicals Pvt. Ltd.

Plot No. 172/A, Road No. 24, Phase 2

Mallapur IDA, Hyderabad-500076,

Email: [info@mcrete.com](mailto:info@mcrete.com), Website: [www.mcrete.com](http://www.mcrete.com)

Ph no: +919985898569, 040-27158569

### Pinjala Chemicals Inc.

30273 Eastridge Drive, Spring,

Texas 77386, USA

Email: [info.us@mcrete.com](mailto:info.us@mcrete.com), Website: [www.mcrete.com](http://www.mcrete.com)

Ph no: 001-3136861237