

# MekDenso-A50L

## Product Technical Data Sheet

### Lithium Silicate and PMS based Concrete Densifier & Hardener

#### Description

**MekDenso-A50L** is lithium silicate and PMS based formulated water and salt repellent additive that is formulated to penetrate into most unsealed concrete surfaces to densify, harden, and increase the strength of the top layer of a substrate while retaining its breathability. **MekDenso-A50L** do not promote to Alkali Silica Reaction. **MekDenso-A50L** reacts concrete and provide the abrasion resistance and durability surface, provides long term protection against wear and traffic. **MekDenso-A50L** reduces the dust formation and reduces the overall maintenance of a surface. It also provides resistance to water and moisture, efflorescence, dirt buildup, mold and mildew, and salts and deicing chemicals. It can also serve as a concrete polishing aid by producing better initial surface hardness that reduces polishing time and yields a smoother and denser burnished or polished surface. **MekDenso-A50L** is environmentally friendly, VOC compliant, non-flammable, and has odorless formula for safe indoor use. **MekDenso-A50L** has a clear appearance.

#### Uses

**MekDenso-A50L** is used as a concrete densification sealer for treating concrete including polished concrete such as residential concrete floors, commercial car parks, and factory or warehouse flooring. Applications include treating new and old concrete floors for strengthening, dust-proofing, and creating a hard, smooth/glossy and color enhanced polished concrete finish. The densifier may be used for sealing other masonry substrates including natural stone, clay bricks and ceramic tiles.

#### Features

- ❖ Deeply penetrating into concrete ensuring durable protection.
- ❖ Fast reaction with concrete for efficient concrete polishing process.
- ❖ No visible residues or efflorescence after application.
- ❖ Enhances surface color without changing the surface characteristics of concrete.
- ❖ Reduces water absorption and surface staining.
- ❖ Environmentally friendly water-based technology.
- ❖ Ready-to-use low viscosity formula enables easy application.

### Use Instructions: Surface Preparation

- ❖ Prior to application, the concrete surface should be completely cleaned of any surface contaminants that may impede the penetration of **MekDenso-A50L**. The surface should be allowed to dry before application.
- ❖ New concrete should be properly cured. Curing compounds, release agents, and coatings/membranes should be completely removed and cleaned from the surface and allowed to dry before applying **MekDenso-A50L**. In the case of acid treated concrete, the concrete surface should be completely neutralized and rinsed with water and allowed to dry before the application.
- ❖ For polished concrete, the surface is firstly removed by grinding up to 200 grit or any desired finish to expose the capillaries or aggregates before applying **MekDenso-A50L**. This will ensure maximum absorption of the sealer to achieve optimum concrete densification and desired surface finish by the application of **MekDenso-A50L**.

### Technical Data

S. No.	Properties	Requirements
1.	Appearance	Clear Liquid
2.	Specific Gravity	1.10 -1.30
3.	VOC	Nil
4.	pH	10-11
5.	Solubility in water	Soluble in water

### Application

**MekDenso-A50L** is a ready-to-use sealer. The densifier sealer may be applied with a low-pressure hand sprayer, brush or broom. The product should be evenly flooded onto the surface. Pooling should be avoided. In order to achieve maximum absorption, ensure the sealer is present on the surface as a mirror-like wet film for up to 30-45 minutes. If the first coat is quickly absorbed by the surface, the second coat is applied immediately while the surface is still wet (wet-on-wet method). For porous and permeable concrete, this wet-on-wet application may be repeated until the surface is saturated with no further absorption of the sealer being achieved. Remove excess sealer from the surface if it hasn't been absorbed by the surface within

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### CEMEK (I) PRIVATE LIMITED

(An ISO 9001:2015 & 14001:2015 Certified Company)

Address: - 2C 137/6, Gali No.-1, Teachers's Colony, Dankour, Greater Noida, Gautam Budh Nagar-203201 U.P.

Contact Details: - +91-9805713504 [cipl2@yahoo.com](mailto:cipl2@yahoo.com) | [manoj.cmri@gmail.com](mailto:manoj.cmri@gmail.com)

Website: - [www.cemekindia.com](http://www.cemekindia.com)

"Comprehensive Solution for Constructions"

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30 minutes. Any excess sealer on the surface may dry to unwanted residues that may become difficult to remove after the product is cured.

### Coverage

- ❖ Coverage Rate-50-60 sq. ft./Ltr for machine troweled and smooth surfaces.
- ❖ Drying times are for estimating purposes only. Actual drying time is based upon temperature, humidity, and air flow.

### Important

**MekDenso-A50L** penetrates and blocks the concrete pores or capillaries, and hardens the surface. However, the degree of pore blocking, surface hardening and water resistance depends on many factors which are out of the manufacturer's control. It is highly recommended that a pilot test on site should be conducted by the applicator prior to application to determine the suitability of this product for the purpose.

### Handling & Storage

**MekDenso-A50L** is an alkaline solution. Skin or eye contact should be avoided by wearing proper protection. The risk of vapor inhalation of this product is low; however, an air-purifying respirator should be worn if there is a risk of exposure to high vapor concentrations. Wash hands after handling.

### Packaging

**MekDenso-A50L** is available in 20-liter packages.

### Storage

The product should be kept in the sealed original container under 25°C. Keep this product away from aluminum surfaces. Keep out of reach of children.

### Product Information

Although the basic formulation of our products generally remains unchanged, production refinements arising from continuing research and evolution program may occasionally result in marginal changes in properties.

### FIRST AID!

**Eyes** : Flush with water for at least 15 minutes.  
**Skin** : Wash thoroughly with soap and water.  
**Inhalation:** Move subject to fresh air.  
**Digestion :** Consult physician immediately

**Note:** - Keep out of reach of children for professional and industrial use only.

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Website: - [www.cemekindia.com](http://www.cemekindia.com)

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