



COUPSYL® LS-DENSIFIER

Technical Information

COUPSYL® LS-DENSIFIER as a liquid lithium-based concrete densifier is a colorless, transparent and full mineral solution. This product with its high penetration into the concrete and cement texture while reacting with the free lime and forming calcium silicate crystals has blocked the pores and capillary tubes. It does not allow water or steam particles, oil and even harmful gases to penetrate. Also, it actually removes efflorescence from concrete surfaces by absorbing calcium and calcareous compounds. In other words, this product with its high penetration strength increases the texture density of these surfaces. Therefore, concrete surfaces that have been reinforced with lithium-based densifier are actually waterproof by losing their absorption and penetration centers and they are impermeable to a great extent.

1. Uses and applications

- Reducing the permeability of concrete surfaces
- Removing dust caused by wear of concrete surfaces
- Proper primer before applying colored layers including resistant colors and coatings of Epoxy and Polyurethane and building colors sensitive to efflorescence
- Anti- efflorescence and waterproofing primer before concreting and repairing concrete
- Dust repellent and dust-proof of old concrete surfaces
- Polishing and dust-proofing concrete floors with COUPSYL® LS-HARDENER product



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2. Features and benefits

- Fully absorbent and penetration power up to 20 mm in concrete
- No create a layer and increase in surface thickness
- No create hue and change the surface color
- No participate in an Alkali-silica reaction of concrete
- Permanent durability and stability
- Improve the abrasion resistance of concrete surfaces
- Being water-based and with petroleum solvents (environmentally friendly)
- Nonflammable
- Being Lithium-based and absorption of free lime and efflorescence control strength
- Ability to filling pores and capillaries and microscopic concrete ducts
- Ability to increase the concrete density
- Restoring old concrete surfaces and further strengthening
- Prevent the carbonation reaction of concrete
- Ability to control breathing concrete and prevent negative water vapor pressure

3. Technical Specifications

Property	Amount
Physical appearance	Clear liquid
Purity	≥ 99
pH	11-12
Solid percentage	11 ± 0.5 wt. %



4. Method and tools:

This product can be applied to the surface with a low-pressure pump (spraying pump) or a brush without the need for dilution. But depending on what concrete surface (exposed or non-exposed) is applied and also what application it has, performing method can be a little different. (For more information, refer to this product manual file.)

5. Risks and Limitations:

To apply liquid densifier on concrete surfaces, it must have passed at least 14 days since the concrete was applied and the concrete has reached its final strength. Due to its low resistance to acidic conditions, it cannot be used as a final coating where acid washing is required.

6. Maintenance method

Keep in a sealed container, dry and low light environment at a temperature of 15-40 degrees Celsius. In case of contact with skin, wash immediately with plenty of water. Immediately see a doctor if swallowed. This solution is free of hazardous evaporative and non-flammable materials.

Tips:

1. It is emphasized here this information is based on our current knowledge and is not necessarily the best suggestions, therefore the customer should take action to



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use materials after performing the necessary tests and examining all the effective factors in the workplace.

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