

LK- Aquaseal-40

PRODUCT DESCRIPTION

LK-Aquaseal-40 is water-soluble solution of **silicone**. This product is designed to impart water repellency to a wide variety of surfaces.

BASIC PRINCIPLE

LK-Aquaseal-40 reacts with carbon dioxide in the air to form water repellent layer.

BENEFITS

- Minimizes / stops completely water absorption into the substrate.
- Helps in reducing spalling due to freeze-thaw and efflorescence.
- Colorless protective film preserves the natural appearance of the substrate.
- Very good surface penetration offers excellent protection to the slightly porous substrates
- Film formed is breathable
- Nonflammable

HOW TO USE

As a Surface Treatment

LK-Aquaseal-40 water repellent has to be diluted at 1:12 by using water prior to application.

The use of higher concentrations than required may result in the formation of a white residue on the surface. Users should test the concentration to be applied on the substrate prior to use.

After application of the silicone solution, allow the treated surface to dry for 24 hours to develop maximum water repellency.

As an Admixture / Integral component

Add 0.25 to 0.75 % (by weight) of LK- Aquaseal 40 as a function of Cement weight, to get best possible reduction in water permeability. Above % may vary in case of specific applications.

APPLICATIONS METHODS

Dilute solutions of LK-Aquaseal-40 water repellent can be applied by brush, roller, spray.

APPLICATION PRECAUTION

Always prefer Application studies for small surfaces / volumes for any new application area to establish the data for specific use.

Surfaces to receive the water-soluble silicone should be slightly dampened prior to application.

This water-soluble silicone can not be applied on the surfaces on which previously treated silicone or another water repellent product layer is already existing.

While spraying LK-Aquaseal-40 water repellent, protect near by vegetation or articles from over-spray. As the material is highly alkaline it may damage vegetation. Chances of stains formation or

etching the glass, plastic, aluminum and most metals is quite possible due to excess traces / over spraying of this product.

White precipitate of potassium carbonate might form because of over-application. Such traces can be removed by scrubbing the surface (normal washing with water is not sufficient to remove those patches.)

HANDLING PRECAUTIONS

LK-Aquaseal-40 water repellent is highly alkaline material and should be handled with the same care as solutions of caustic soda. Avoid direct inhalation in case of misting during spraying (a respirator is recommended during such operations). Local exhaust is recommended if spray or mist is created in an enclosed area. Swallowing large amounts may cause serious injury. Avoid contact with eyes, skin and clothing. In case of skin contact, wash immediately. In case of eye contact, flush immediately with water at least for 15 minutes and obtain prompt medical attention

TYPICAL PRODUCT SPECIFICATIONS

Sr.no	Product Specification	Sr.no	Product Specification
1.	Appearance :- Colorless to straw yellow clear liquid	9.	Recommended application methods :- Brush / Roller / Spray
2.	Viscosity (by B5cup):- Max 100cps.	10.	Antifungal Property :- Excellent
3.	Recommended solvent :- Water	11.	Alkali / Sea water resistance :- Excellent
4.	Recommended Dilution ratio:- 1:12 by volume	12.	Application Temp. range :- 15 –50 oC
5.	Coverage (on normal concrete):- 300 sq. ft.	13.	U. V. Resistance :- Excellent
6.	Curing time :- approx. 24 Hrs.	14.	Flash point :- > 100 oC
7.	% solid contents :- 38-42	15.	Required surface preparation :- Clean oil / dust free surface is required
8.	Shelf life :- six months in original packing	16.	Specific Precaution during curing :- Avoid water / solvent spillage / contact for 24 Hrs.

SPECIAL PRODUCT FEATURES

LK-Aquaseal 40 is odourfree, non flammable, easy to handle cost effective product for surface as well as Integral application.

AVAILIBLITY

LK-Aquaseal 40 is available in 30 / 50 kg. HDPE carbouys, 200 kg. MS drums. Any other special packing can be thought at extra cost.

The information provided to the customers in this data sheet is intended as a guideline and is provided in good faith. The Information is believed to be accurate. Changes may occur from system to system as methods of use and conditions are beyond our control, hence **users are requested to evaluate the recommendations before actual application to get desired performance.**

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