

Unisil SE -55L

Water repellent of external surfaces

Description

Unisil SE-55L – emulsion of reactive polydimethylsiloxane in water.

Properties

- Good penetration into the pores of the processed material;
- no hazardous chemicals are released during application;
- retains gas permeability of materials after application and drying of the coating;
- addition of an emulsion to water-based paint and varnish coatings improves water-repellent properties, water resistance, vapor permeability, weather resistance and durability of the coating.

Features

After application, it reacts chemically with the reaction groups of the treated material and forms a durable protective waterproof coating chemically bonded to the substrate.

When used as an additive in paint materials does not reduce their storage stability. This allows to use it as an additive to various water-based paints (acrylic, styrene-acrylic, latex), to improve the properties of the paint, the technology of its application and properties of the coating.

Applications

- As an additive to water-based paints based on acrylic, styrene-acrylic, latex, silicone or silicat;
- for hydrophobizing treatment of expanded materials (perlite, vermiculite, expanded clay);
- to impart water-repellent properties to stone wool and glass wool.

Storage

The shelf life of is 6 months at temperature from 5 °C to 30 °C. Store in original containers. Store in a cool, dry, well-ventilated place, protect from moisture and direct sunlight, away from heaters.

Storage over the date specified on the label does not necessarily mean the product is unusable. In case if store more please check the properties of product before use.

Product specification

Appearance	White emulsion	organoleptically
Mass content of solids, %, at least	55	EN ISO 3251
Funnel viscosity at (20,0±0,5)°C by viscometer B3-246, nozzle diameter 4 mm, s, at least	10 - 50	EN ISO 2431
Stability at dilution, hours, at least	24	
The reaction of medium (25% aqueous solution), pH	6,0 - 7,0	

For more information please contact your nearest representative of Unisil Hungary Kft.

LIMITED WARRANTY INFORMATION PLEASE READ CAREFULLY

The information contained herein is accurate, but it does not relieve the customer from the control of each batch of products supplied. Since the conditions and methods of use of our products are beyond our control, the recommendations contained in this document should be updated by the client providing preliminary tests. Recommendations for use should not be construed as a guarantee of product suitability for a particular purpose. Unisil Hungary Kft warrants only that the product meets its specifications in effect at the time of delivery.

Application (examples)

As the additive to water based paints: Add undiluted to paints and varnishes during or after their manufacture in an amount of 1,0 to 3,0 % by weight of the total composition, mix thoroughly. To determine a more accurate dosage, it is necessary to conduct individual tests taking into account the type of coating.

When processing expanded materials.

Preparation of working solution:

Dilute 1 L of Unisil SE-55L in (5 – 10) L of water, depending on the absorbency and type of the substrate.

It is recommended to prepare a one-off portion of water repellent in the amount not exceeding the consumption per one working day.

Application: by spraying. The flow rate for hydrophobization of perlite or vermiculite is (0,2 – 0,4) % for expanded clay (0,1 – 0,2) % (by weight). The emulsion can be sprayed onto warm foam to avoid an additional drying process. However, prolonged heating of the treated material should be avoided.

Precautions for use

When sampling the product, do not allow it to remain in an open container for a long time. After partially withdrawing the product, the container must be hermetically sealed.

Always test the selected concentration of Unisil SE-55L on a small sample of material to determine the optimum amount of material and suitability for your particular application.

Packing

- Polymer canisters up to 25 dm³;
- polyethylene drums up to 50 dm³;
- barrels combined/steel-polyethylene up to 200 dm³;
- barrels of polyethylene, 220 dm³;
- special polymeric containers up to 1 m³.

Safety instructions

Detailed instructions are given in the relevant product safety data sheet. It can be provided upon request from the Unisil Hungary Kft or printed from the website Unisil Hungary Kft www.unisil.eu.