

Unisil SE 50-12P

Emulsion of silicone oil for finishing and hydrophobization

Description

Unisil SE 50-12P is the emulsion of reactive polydimethylsiloxane in water.

Features

- Reduces the water absorption of mineral wool insulation, thus improving their performance characteristics;
- to prevent the formation of fine dust during fibreglass or mineral wool production it is recommended to use the emulsion SE 50-12P mixed with the emulsion OE 50-42;
- the mixture of emulsions OE 50-42 and SE 50-12P reduces the harmful effects of dust on the human body during contact with mineral wool;
- increases water-repellent properties, water resistance and vapor permeability in water-based paints and silicone plasters.

Precautions for use

As the shelf life of various mixtures depends on the content of binder and additives, no general advice on their compatibility can be given.

Always test the selected concentration of SE 50-12P or mix of emulsions OE 50-42 and SE 50-12P on the trial sample to determine the optimal amount of material and the suitability for use in a particular case.

Storage

Guaranteed shelf life of SE 50-12P is 6 months at a temperature from 5 °C to 30 °C. Store in closed original containers of the manufacturer in cool, dry, well-ventilated place, protected from moisture and direct sunlight, away from heaters.

When selecting a product, do not allow it to be kept in an open container for a long time. After partial withdrawal of the product, the container should be hermetically sealed.

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.

Safety instructions

Comprehensive 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.

Product specification

Appearance	Homogeneous liquid free of mechanical impurities, color	organoleptically
Mass fraction of non-volatile substances at (105.0±0.5) °C, (180±5) min, (2.0±0.2) g, %, no less	48	ISO 3251
Time of outflow at a temperature of (20 ± 2) °C, s, measuring cup with an opening for outflow of 4 mm in diameter	30 - 150	ISO 2431
Stability on dilution, at least, hours	24	
The reaction of medium (25% aqueous solution), pH	6,0 - 7,0	
Mass content of silicon, %	18 - 22	

Areas of application

- Finishing and hydrophobization of various materials, in particular materials from fiberglass and mineral wool products.
- to prevent the formation of fine dust it is recommended to be used together with the emulsion OE 50-42;
- can be used as an additive in water-based paints.

Methods of application

SE 50-12P is applied by spraying together with binder and other additives.

When application of the emulsion SE 50-12P together with the emulsion OE 50-42 the mixing ratio is one weight part of the emulsion SE 50-12P for 3 - 5 weight parts of the emulsion OE 50-42. The mixture of emulsions is applied by spraying together with binder and other additives.

Reprocessing of fiberglass and mineral wool products after curing of the emulsion SE 50-12P or mix of emulsions OE 50-42 and SE 50-12P is not recommended.

The amount of applied emulsion SE 50-12P or mix of emulsions OE 50-42 and SE 50-12P depends on the desired properties of the end product, so no general advice can be given.

To determine the optimal amount please provide individual tests.

Normally, the sufficient amount of emulsion SE 50-12P is at least 0,2 % or (0,6 – 1,2) % for mix of emulsions OE 50-42 and SE 50-12P by weight of dry fibrous material.

In paints and plasters, the product should be added during or at the end of the manufacturing process in an amount of 1,0 to 3,0 wt. %. Individual tests must be performed to determine the required amount and compatibility.

Packing

- Polymer canisters up to 25 dm³;
- polyethylene drums up to 50 dm³;
- combined barrels (steel-polyethylene) 200 dm³;
- barrels polyethylene up to 220 dm³;
- special polymer containers up to 1 m³.

To obtain more information please contact your local 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 only guarantees that the product meets its specifications in effect at the time of delivery.