



**SILKOR**  
chemistry solutions

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## Silicone emulsion SE-50/53M

Water-repellent agent for the treatment of various materials

### Characteristics

SE-50/53M is a water emulsion of silicone low molecular weight polymers with reactive end groups and functional groups of silicon atoms that does not contain solvents.

### Properties

- The emulsion does not contain organic solvents and other environmentally harmful additives.
- No hazardous chemicals are released during application.
- Deep penetration into the pores of the treated material.
- Application on a damp surface is possible.
- Forms a durable protective coating chemically bonded to the treated material.
- Retains the gas permeability of treated materials after application and drying of the coating.
- When added to water based paint, the emulsion improves its spreadability, the appearance of the film and adhesion to the material.
- Increases the weather resistance and durability of the protective coating.

### Features

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

When used as an additive in paints, the emulsion SE-50/53M usually does not reduce the stability of the paint during storage. This allows the use of the emulsion as an additive to various water-based paints (acrylic, styrene-acrylic, latex), improving the properties of the paint, the technology of its application, the properties of the coating.

### Applications

#### 1. For hydrophobic treatment of:

- brickwork made of ceramic or silicate brick;
- reinforced concrete products;
- concrete, aerated concrete;
- lightweight fillers;
- perlite;
- mineral plaster;
- mineral paint primer;
- as an additive for water-based paints;
- for priming the surface before painting with mineral paints;
- ceramic materials (tiles).

2. As an additive to water-based paints - acrylic, styrene-acrylic and latex.

### Application at surface treatment:

**Preparation of surface:** Remove flaking, loosely bound to the base particles, remove dust and other contaminants.

It is recommended to clean the surface with high pressure washers, steam cleaner, water jet or mechanically, remove dust. After wet cleaning, allow the surface to dry. The application of the agent is recommended on a clean, dust-free surface. The application on a damp surface free from visible water is allowed.

**Preparation of working solution:** Please dilute 1 liter of agent in 5-10 liters of water, depending on the absorbency and nature of the material to be treated.

The recommended amount of prepared water repellent solution should not exceed the amount required for one day of work.

Before use, please make a trial treatment on a small area of the surface or a single element.

The surfaces that cannot be treated must be closed to protect them from undesirable exposure to liquid.

**Application methods:** Apply with roller, brush or spray gun until complete saturation of the surface, repeat application on still wet surface, i.e. "wet on wet". When application please provide uniform and complete absorption of the liquid in order to prevent spots and stains.

The consumption rate depends on the porosity of the material to be treated and the application method, and can range from approximately 0.2 to 0.5 l/m<sup>2</sup> of the prepared working solution.

Carry out work in dry weather conditions at temperatures between +5°C to +25°C. Drying time at a temperature of 20°C is not more than 24 hours, at a lower temperature the drying slows down and may take longer.

### Application as the additive to water based paints.

The amount of emulsion to be added is determined by required properties of the end product, so no general advice can be given. To determine the required amount please provide tests for any particular case.

### Storage

Store in tightly closed original container at temperature from +5°C to +30°C. Keep in dry, cool and well ventilated place. Prevent from direct sunlight and freezing. Store away from oxidizers, strong acids, alkalis and other chemicals having alkaline reaction.

The shelf life in original container is 12 months.

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.

### Packing

Polymer barrels up to 220 l.

Special polymer containers up to 1 m<sup>3</sup>.

The container must be equipped with a safety valve.

### Safety instructions

Please see detailed instructions in the relevant product safety data sheet, which can be provided upon request.

## Technical characteristics

Parameter name and measure unit	Standard
Appearance	The emulsion of white or milky
Odor	Neutral
The reaction of the medium, pH	5,0 – 6,5
Mass content of solids, %, at least	50,0
Dynamic viscosity at temperature of 25°C, cps, at least	500

To obtain more information please contact your nearest representative office of Silkor Ltd.

### 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.

Silkor Ltd only guarantees that the product meets its specifications in effect at the time of delivery.