

# Unisil PE-60/1

## Water repellent for building materials

### Description

Unisil PE-60/1 – emulsion of paraffin in water.

### Applications

Used in the woodworking industry for the hydrophobic treatment of chipboards, wood fiber boards of medium density (MDF) and high density (HDF), oriented particle boards (OSB), wood fiber boards of the "wet" production method.

### Features

- Well combined with resins based on carbamide and melamine;
- fine paraffin particles (about 1 micron) penetrate deeper into the material and therefore more effective in hydrophobic treatment of wood fibers in comparison with the use of paraffin melt;
- reduces dusting at sawing or grinding of boards, thus increasing the service life of grinding belts;
- increases the strength, smoothness and evenness of the treated boards.

### Packing

- Polymer canisters up to 25 dm<sup>3</sup>;
- polyethylene drums up to 50 dm<sup>3</sup>;
- combined barrels/ steel-polyethylene up to 200 dm<sup>3</sup>;
- polyethylene barrels up to 220 dm<sup>3</sup>;
- special polymer containers up to 1 m<sup>3</sup>.

### Methods of application

Apply the emulsion before hot board pressing. When heated, the emulsion decomposes and the molten paraffin micro particles settle and provide the hydrophobic effect of the board.

The amount of the used emulsion depends on the desired properties of the final product, so no general advice can be given. To determine the optimum amount, provide individual tests.

In many cases, it is sufficient to add (0,5 – 1,2) % of the emulsion from the weight of the dry material.

Always test the selected emulsion concentration on a small sample of the material to determine the optimum amount of the product and suitability for each particular application.

### Storage

Store in original containers at temperatures from 5 °C to 35 °C. Stock in a dry, cool and well ventilated place. Protect from direct sunlight and freezing, keep away from heat. Store away from oxidants, hypochlorites, strong acids and alkalis.

The shelf life in original container is 6 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.

### 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](http://www.unisil.eu).

### The specification for PE-60/1

<b>Appearance</b>	Homogenous emulsion without mechanical impurities, the color is not standardized	organoleptically
<b>Mass content of solids, %, at least</b>	58	EN ISO 3251
<b>Medium reaction, pH</b>	8,5 ± 1,5	
<b>Conditional viscosity at temperature (20,0±0,5)°C, s, by viscometer B3 246 with nozzle diameter 4 mm</b>	10 - 30	EN ISO 2431
<b>Stability at dilution, hours, at least</b>	24	

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

### LIMITED WARRANTY

### 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.