

# Unisil APS

## Water repellent agent for waterborne paints and varnishes

### Description

Emulsion of aminofunctional polysiloxane in water.

### Features

- significantly reduces capillary water absorption;
- increases the hydrophobicity of the surface, which leads to a good "lotus effect";
- reduces the tendency to contamination of the coating;
- improves early water resistance;
- improves water resistance and vapor permeability of coatings and primers;
- imparts hydrophobic properties to insulating materials;
- does not contain alkyl phenol ethoxylates;
- does not contain organic solvents;
- highly effective with a small amount of application;
- soluble in water, but solutions have limited storage stability;
- easy to enter;
- does not contain cyclic silicones.

### Storage

Store in original containers in a dry, cool, ventilated place, away from sources of ignition and high temperatures. Protect from direct sunlight and freezing. Sensitive to frost. After exposure to temperatures below freezing point, irreversible changes can occur.

The shelf life is 12 months at temperatures between 0°C and 30°C.

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

Material - high density polyethylene (HDPE):

- canisters with a capacity of up to 20 dm<sup>3</sup>;
- barrels with a capacity of up to 200 dm<sup>3</sup>;
- containers with a capacity of up to 1 m<sup>3</sup>.

### Technical specification

<b>Appearance</b>	Milky to white liquid	Visually
<b>Mass content of solids at (105,0±2,0)°C, %, at least</b>	49,0	EN ISO 3251
<b>Density at temperature (25,0±0,5)°C, g/cm<sup>3</sup></b>	About 1,000	ISO 3675
<b>Reaction of medium, pH</b>	6,0 – 7,5	
<b>Dynamic viscosity, at (25,0±0,5)°C, spindle (R<sub>2</sub>/200), mPa • s</b>	At least 100	EN ISO 2555

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

### Applications

#### Preferred Applications:

- water-dispersion paints and plasters based on synthetic resins (including silicone);
- silicate water-dispersion paints and plasters;
- whitewash emulsions;
- water facade primers;
- insulating materials.

Especially recommended for pigmented formulations due to its chemical structure.

#### How to use

It is generally recommended to add (1.0 - 3.0) % to aqueous coating systems, based on the total formulation:

- in masonry coatings - 1.0 %;
- in primers - 5.0 %;
- as an independent water-repellent primer - add 10 % emulsion to the water;
- for impregnation of insulating materials - in water (0.5 - 1.0) % of the emulsion.

To determine the optimal concentration before use, it is recommended to conduct preliminary tests.

In aqueous coating systems, the product is added during or at the end of the manufacturing process.

To improve vapor permeability, it is recommended to use a combination with Unisil EMSO-M or Unisil EMSO-DM.

#### Safety instructions

Detailed instructions are given in the relevant product safety data sheet. It can be provided upon request from the office of Unisil Hungary Kft or printed from the website of Unisil Hungary Kft [www.unisil.eu](http://www.unisil.eu).