

# Unisil Ethylsilicate 40-1

## Description

A mixture of tetraethoxysilane and polyethoxysiloxanes.

## Features

- Easily hydrolyzed by atmospheric moisture;
- dries quickly;
- creates a solid silicone film;
- soluble in organic solvents;
- has good astringent and fastening properties.

## Storage

Store in a sealed original container at a temperature from minus 60 °C to +30 °C.

Store in a cool, dry, well-ventilated place, away from areas with a risk of fire and contamination with strong oxidants, alkalis and inorganic acids. Protected from moisture and direct sunlight.

Guaranteed shelf life is 1 year.

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.

## Parcking

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

## Safety instructions

The product is combustible; please follow fire safety instructions during work.

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).

## Application

- In the metallurgical industry - as a binder in the manufacture of ceramic molds for precision casting (lost wax method), rods, as a component of non-stick paints;
- in the textile industry - for non-shrink finishing carpets and woolen fabrics, giving them resistance to decay;
- in the glass industry - for the enlightenment of optical glasses, coating cylinders of bulbs with the light-scattering layer;
- in construction - to create hydrophobic properties of building materials and painted surfaces, for impregnation of concrete to reduce the porosity and increase the acid and frost resistance, for production of silicate and acid-resistant cement;
- in the paint industry – as the additive for thermal and water-resistant quick-drying coatings with lasting shine; to reduce the time of oil oxidation in the preparation of drying oil (added when heating oil in the amount of 3 - 5% by weight) as the component of non-stick paints;
- in the gas-oil industry - as a main component of grouting fluids;
- in the ceramic industry - as a binder in the manufacture of ceramic materials resistant to aggressive media and having the mechanical strength, high heat resistance and dielectric properties, for production of heat resistant materials which can withstand the temperatures up to 1700°C and loads more than 120 kg/cm<sup>2</sup>.

## Product specification

<b>Colour mg Pt-Co/l</b>	≤ 30	DIN ISO 6271
<b>Mass content of silicon dioxide, %</b>	40 - 42	
<b>Density at (20,0±0,5) °C, g/cm<sup>3</sup></b>	1,05 - 1,07	EN ISO 3675
<b>Mass content of hydrogen chloride, mg/kg</b>	≤ 20	Direct titration
<b>Time of gelation, min</b>	120 - 280	

To obtain more information please contact your nearest representative office 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.