

# KOVA Roof

## Roofing mastic, waterproof

### Characteristic

A two – component material consisting of a liquid silicone rubber base and a hardener.

On customer request, it can be equipped with a catalytic converter.

### Features

- Mastic coating does not spread the flame, refers to the coating of low flammability, moderately flammable;
- elastic at temperatures from minus 35 °C to +105 °C;
- highly adhesive to various building materials;
- easy to apply (applied with a brush or roller);
- does not change the volume at polymerization;
- UV-resistant;
- resistant to industrial environment;
- resistant to microorganisms;
- the shelf life of waterproof roofing is about 25 years.

### Applications

- On flat and pitched roofs;
- new roofing on concrete surface (traditional and inverse roofs), metal and oriented strand boards (OSB);
- repair of old soft bituminous roof (rolled or mastic), dismantling of the old waterproof coating is not necessary.

### Applications

#### Surface preparation:

Clean metal surface to a grade St2 or Sa 2,5 by ISO 8501-1 and degrease.

#### Concrete surface:

- thoroughly clean the surface of the base from contamination, it is recommended to sand the surface;
- remove dust using industrial vacuum cleaner;
- prepared concrete surface should be smooth, flat, without greasy stains, moisture content in the top layer of concrete to a depth of 20 mm should not exceed 4 %.

#### Mastic preparation:

Add 4 weight parts of the curing agent to 100 weight parts of the base and thoroughly mix. Before applying the first layer of mastic should use a primer. To prepare the primer composition, about 30% of xylene should be added to the working mixture of the mastic and thoroughly mixed again. Use prepared composition within 1 hour since the moment of preparation at temperature up to 20 °C.

Must apply and level the material over the surface during this time. The higher temperature, the less viability term of prepared composition.

When the ambient air and substrate temperatures are below 20°C, it is recommended to add a catalyst to the prepared mastic composition and mix thoroughly.

Recommended amount of catalyst in the working mixture, depending on temperature:

Temperature, °C	Amount of catalyst, %
From 15 to 20	0,03 – 0,07
From 10 to 15	0,07 – 0,2
From 5 to 10	0,2 – 0,5
From 0 to 5	0,5 - 1,0
From 0 to minus 5	1 - 2,0

### Mastic application

Apply the mastic on prepared surface by pouring method, then level with rubber squeegee, spatula, roller or paintbrush.

Alternately apply on the surface (with intermediate drying at least 12 hours at 20 °C) the following layers of mastic:

- priming layer (the consumption of mastic is 0,3 kg/m<sup>2</sup>);
- leveling layer (the consumption of mastic is 0,75 - 1,0 kg/m<sup>2</sup>);
- sticking layer, which should be covered immediately after the application of mastic with a fiberglass layer for roofing, which should be rolled with a spiked roller (the consumption of mastic is 0,85 - 1,0 kg/m<sup>2</sup>, the consumption of fiberglass is 1,09 kg/m<sup>2</sup>);
- filling layer (the consumption of mastic is 0,75 - 0,9 kg/m<sup>2</sup>);
- decorative layer (the consumption of mastic is 0,6 - 0,7 kg/m<sup>2</sup>).

Work when dry weather only at a temperature of at least 5 °C. The surface is allowed to be exposed to a moisture and precipitation not earlier than 12 hours (at 20 °C) after application of the layer of mastic.

### Storage

Store mastic in closed warehouse in sealed containers at temperatures from minus 30 °C to +40 °C, protected from direct sunlight.

Keep the components used for production of mastic in the sealed containers in the closed warehouse, protecting from moisture and direct sunlight.

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

- Base – metal pails of capacity of 10 L or 20 L;
- Hardener – polymer vials or bottles of 0,5L or 1,0 L, complete with caps with air valves;
- Catalyst - bottles or polymeric bottles with a volume of 0,05 L or 0,1 L.

### 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).

**Technical specification**

<b>Appearance of mastic components</b>	homogeneous without visible foreign inclusions
<b>Film color</b>	as benchmarked
<b>Density, kg/l</b>	1,27 - 1,40
<b>Viscosity of the mastic base according to VZ-246 with a nozzle with a diameter of 6 mm, min, not less</b>	3
<b>Mass fraction of nonvolatile substances at the base of mastic,%, not less</b>	94
<b>Conventional solidification time (viability) at (20 ± 2) °C, hours, not less</b>	1
<b>Adhesion strength with concrete, MPa, not less</b>	0,4
<b>Conventional strength, MPa, not less than</b>	0,6
<b>Relative elongation at break,%, not less</b>	220
<b>Water absorption within 24 hours,% by weight, not more</b>	0,5
<b>Water resistance, at pressure MPa, during, h, not less</b>	0,001 72
<b>Flexibility on the bar with a rounded radius of (5.0±0.2) mm after 20 min at temperature, ° C</b>	Minus 30
<b>Heat resistance after 60 min at temperature, °C, %, not more</b>	105±5 1,0
<b>Color fastness, hour, not less</b>	2

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

**LIMITED WARRANTY INFORMATION  
PLEASE READ CAREFULLY**

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