



## Silicone liquid GKZH 136-157M

Water-repellent agent for surface and volumetric treatment of porous mineral bases.

### Characteristics

Liquid GKZH 136-157M is a polymethyl hydride siloxane, silicone organic liquid, free of solvents.

### Properties

- Liquid GKZH 136-157M reduces capillary water absorption of treated surfaces.
- Impregnation with liquid prevents reduction of heat insulation properties of the material, long resistant to effect of different factors, including alternate freezing-thawing, as well as resistant to ultraviolet and infrared rays, alternate wetting and drying.
- Penetrates deeply into the pores without clogging them, maintaining vapour permeability of the material processed.
- Colorless. Does not change the appearance of material treated,
- Non-toxic.
- Soluble in aromatic and chlorinated hydrocarbons, undergoes gelation in the presence of amines, amino alcohols, strong acids and alkalis. Not soluble in water and lower alcohols.

### Applications

- Water repellent treatment of gypsum boards and blocks.
- For treatment of powder and granulated materials to make them water resistant, improve flow ability and prevent caking.
- For water repellent treatment of surfaces that absorb moisture, such as brick, concrete, natural building and ceramic products.
- In production of fire extinguishing powders on the basis of ammonium phosphates.

### Application methods

Liquid GKZH 136-157M is normally used as diluted solution or water emulsion.

**At volumetric treatment** Liquid GKZH 136-157M is added into mixing water to gypsum. To achieve sufficiently reduced water absorption use about 0,2-0,4% of the liquid from the amount of dry gypsum.

The efficiency of liquid GKZH 136-157M depends on the qualitative and quantitative composition of gypsum material, so no precise advice on dosage can be given. Always provide preliminary test to determine the optimal amount of liquid GKZH 136-157M.

**At surface treatment** liquid GKZH 136-157M is used after diluted with one or some hydrocarbon solvents such as white spirit, solvent, acetone or ethylmethyl ketone. The norm of dilution: for 1 liter of liquid GKZH 136-157M add 10 liters of solvent. Diluted solutions can be applied by dipping, spraying or brush. Apply working solution on a dry, clean surface until absorbed, preventing drops.

Consumption depends on the porosity of the surface of the processed material. Always test selected concentration of liquid on a small material sample to be sure in its suitability

### Storage

Store in original container at temperature from -40°C to +30°C. Store in a cool, dry, well-ventilated place. Protect from moisture and direct sunlight.

Store away from oxidizers, strong acids, alkalis and other chemicals having alkaline reaction for example, ammonia, amines).

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

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

The container must be equipped with a safety valve.

### Safety instructions

Safety information is not included in this document. Detailed instructions are given in the relevant product safety data sheet. It can be provided upon request.

## Product specification

NAME OF PARAMETER AND UNIT OF MEASURE	STANDARD
Appearance	Colorless clear oily liquid
Density at temperature $+(25\pm 0,5)^{\circ}\text{C}$ , $\text{g}/\text{cm}^3$	0,990 - 1,010
Kinematic viscosity at temperature $+(25\pm 0,5)^{\circ}\text{C}$ , cSt	20 - 30
The refractive index at a temperature $+(25\pm 0,5)^{\circ}\text{C}$	1,396 - 1,410
Dry residue $+(105\pm 2)^{\circ}\text{C}$ , 3 h, %	1,5
Reaction of the medium, pH	6,0 - 7,0
Flash Point in open cup, min, $^{\circ}\text{C}$	130

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.