

Unisil MSE 50/43-13MA

High-performance aqueous mineral oil emulsion modified with chemically active polydimethylsiloxane

Description

Unisil MSE 50/43-13MA – emulsion of a mixture of mineral oil and reactive polydimethylsiloxane in water with the addition of an amino-functional polysiloxane oligomer.

Features

- Multifunctional:
 - prevents the formation of fine dust during the production of insulation and reduces the harmful effects of dust on the human body;
 - as a hydrophobizer reduces water absorption of insulation, which improves its performance properties; reduces the water absorption of mineral wool insulation, which improves their performance characteristics;
 - promoter of adhesion between inorganic materials and organic binder;
 - catalyst to accelerate the curing of organic resin;
- increases elasticity of thermal insulation boards;
- has high stability during storage and dilution with water;
- does not reduce gas and vapor permeability of the material;
- can be mixed with most phenolic resins without side reactions or precipitation.

Areas of application

Used for dedusting and hydrophobization of glass and rock mineral wool with phenolic resins as a binder.

Packing

- Polymer canisters up to 25 dm³;
- combined barrels (steel-polyethylene) 200 dm³;
- barrels polyethylene up to 220 dm³;
- special polymer containers up to 1 m³.

Product specification

Appearance standardized	Homogeneous liquid without mechanical impurities, color is not regulated	Visually
Mass fraction of non-volatile substances at (105,0±2) °C, (180±5) min, (2,0±0,2) g, %, at least	48	EN ISO 3251
Dynamic Brookfield viscosity at (25±1) °C, spindle L, mPa·s, at least	500	ISO 2555
Mass content of silicon, %, at least	4	

For more information you can request from your 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 only guarantees that the product meets its specifications in effect at the time of delivery.

Application

Used as a component in the mixture for the treatment of mineral wool. Test the compatibility of the emulsion with the other components before use.

After testing, Unisil MSE 50/43-13MA is applied in a mixture of binder and other additives by spraying.

The amount of Unisil MSE 50/43-13MA emulsion varies depending on the thickness and weight of the fibers and is determined by the necessary requirements for the properties of the final product.

In many cases it is sufficient to add (0.6 - 1.2) % emulsion to the weight of the dry fibre material.

Storage

Guaranteed shelf life of MSE 50/43-13MA is 6 months at a temperature from 5 °C to 30 °C. Store in closed original containers of the manufacturer.

Store in a cool, dry, well-ventilated place, protect from moisture and direct sunlight, away from heaters, as well as containers with strong oxidants.

When selecting a product, do not allow it to be kept in an open container for a long time. After partial withdrawal of the product, the container should be hermetically sealed.

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