

Betolin[®] HM

Waterbased water and oil repellent

Chemical description

Betolin HM represents an aqueous emulsion based on polymers of organically modified silicon compounds.

Mode of action

A transparent nanoscale coat of hydrophobic and oleophobic components is formed on the treated surfaces which results in persistent water and oil repellent properties.

The water vapour permeability is not influenced by this treatment.

Specification (average values)

Density (20°C):	approx. 1,00 g/cm ³	042 *)
pH value:	approx. 4,3	008 *)
Viscosity (20°C):	approx. < 5 mPas	053 *)
Aspect:	clear colourless liquid	
Odour:	none	

*) Internal method code – description available on request

Properties

- Good wetting and penetrating power on absorbing substrates,
- forms a transparent nanoscale coat, which is water vapour permeable,
- strongly water repellent after curing,
- oil and soil repellent,
- stable against UV radiation,
- non combustible,
- evolves no noxious gases or vapours.

Application

Betolin HM is applied pure onto clean, absorbing surfaces (e.g. natural or artificial stones, concrete, ceramics, cured plasters) by spraying, rolling, brushing, flushing or dipping to achieve hydrophobic and oleophobic properties. The surfaces to be treated may be dry or damp, but free of stagnant water.

Consumption usually ca. 100 – 200 g/m² according to absorbance.

Application temperature + 5 to + 40°C. Curing time ca. 6 hours at +10°C / ca. 4 hours at + 20°C / ca. 3 hours at + 30°C, the final curing is usually achieved after 24 – 30 hours.

After curing the treated surface shows excellent weatherability and stability against UV radiation.

Note

Before general application a testing area should be prepared in a hidden place and inspected. Apply at temperatures above 0°C.

All the tools must be cleaned with water immediately after application.

Waste disposal: See Material Safety Data Sheet

Storage

Store in closed original receptacles at temperatures above 0°C (storage stability at least 6 months).

Labelling / Safety

Not classified as dangerous according to EC Guidelines and German Ordinance on Hazardous Materials (GefStoffV).
Avoid contact with eyes and skin; slightly irritating effect possible.

Packaging

can
drum
container

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