

LIOSIL[®] eco MQ 803

Silicone Resins

LIOSIL[®] eco MQ 803 is a co-hydrolysis product of tetraalkoxy silane (Q unit) and trimethylalkoxy silane (M unit). The chemical structure of LIOSIL[®] eco MQ 803 can be seen as a three dimensional network of polysilicic acid units which are endblocked with trimethylsilyl groups. Some residual ethoxy and hydroxy functions are present. The average molecular weight can be exactly controlled by the ratio of M and Q units. This ratio approx. is 0.67 for LIOSIL[®] eco MQ 803. In manufacturing LIOSIL[®] eco MQ 803, 100 % of the fossil-based raw materials are substituted by renewable raw materials (biomethanol) based on a REDcert² biomass balance approach audited by TÜV NORD.

LIOSIL[®] eco MQ 803 is a pure white powder manufactured substantially free of volatile impurities. It therefore only contains traces of aliphatic hydrocarbons. According to its low content of fine dust particles and its uniform spherical particle shape, LIOSIL[®] eco MQ 803 exhibits excellent rheological properties (flowability). Therefore, common powder processing techniques like bottling, conveying, and metering are simplified.

LIOSIL[®] eco MQ 803 can be dissolved in polydimethylsiloxanes or further appropriate solvents like non-aromatic hydrocarbons or lower alcohols. The solubility of WACKER[®] MQ 803 TF is excellent.

Technical data

General Characteristics

Property	Condition	Value	Method
Appearance	-	white Powder	-
Average particle size	-	approx. 10 µm	-
HCl (of a 50 % solution in toluene)	-	≤ 10 %	-
Kinematic Viscosity (of a 50 % solution in toluene)	-	3.8 - 4.3 mm ² /s	-
OH (of a 50 % solution in toluene)	-	0.00 - 0.30 %	-
Settled apparent density	-	0.20 - 0.50 g/cm ³	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

Applications

- Surface Care

Application details

LIOSIL® eco MQ 803 is an excellent additive to enhance the water repellent properties of domestic care systems in polish applications.

Using LIOSIL® eco MQ 803, soil resistance and water repellency of the substrate can be distinctly improved.

Furthermore, LIOSIL® eco MQ 803 leads to a long lasting protection.

The good film-forming property makes LIOSIL® eco MQ 803 compatible with other polishing actives such as waxes and silicone fluids.

Packaging and storage

Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code LIOSIL® eco MQ 803



For technical, quality or product safety questions, please contact:

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