

Technical data sheet

Albolith MS C 350 molecular sieve paste

Characteristic:

ALBOLITH MS C 350 Molecular Sieve Paste is a 50% homogeneous dispersion of molecular sieve in castor oil from own production.

Specification:

Solids content	%	48.0 - 52.0
Viscosity	mPas	< 18000
Potlife	min	> 50

According to:

ISO 3251
ISO 2555, Brookfield RVT
at 20°C, Spindle 5/
rpm 20/factor 200

Further typical data*:

Dispersing particle size	µm	max. 50
Pore size	Å	3
Appearance		Light viscous paste
Density	g/cm ³	1.25
Hydroxyl value	mg KOH/g	77 - 87
Water absorption	%	> 10

According to:

ISO 2811-1
ISO 12966

based on the active matter at
80% rel. humidity and 25 °C

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Applications:

ALBOLITH MS C 350 Molecular Sieve Paste removes moisture in polyurethane systems by absorbing water. Since the isocyanate reacts with water forming carbon dioxide, a high residual content of moisture (i.a. in pigments, fillers and solvents) is negative for polyurethane systems. The carbon dioxide bubbles not only affect the appearance of the polyurethane coating but also material properties. In addition, moisture in polyol systems causes a rapid increase in viscosity and gelation during storage. Main applications are casting resins and sports floorings based on polyurethane, PU sealants, adhesives and various coatings.

Properties:

Due to the close cooperation with the manufacturer of the molecular sieves and a special manufacturing process of the paste, quality variations of the molecular sieves can be compensated and a constant quality of the paste can be guaranteed. ALBOLITH MS C 350 molecular sieve paste has a defined viscosity, good flowability and good pot life stability. Constant quality even when the container is already open, pumpability, the possibility of bulk delivery and, above all, easy incorporation make the molecular sieve paste superior to the use of molecular sieve powder. Practically no exothermic reaction is observed during incorporation. The good compatibility of castor oil with almost all common polyol systems allows its use in almost all polyurethane resins.

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Dosage:

The dosage of ALBOLITH MS C 350 Molecular Sieve Paste is determined by the amount of moisture to be adsorbed. Usually satisfactory results can be obtained with the addition of 5 to 10% calculated on the total formulation. Stirring during the recommended two-hour adsorption time improves efficiency. Used as a filler, ALBOLITH usually increases the weathering resistance of the systems.

Storage conditions:

ALBOLITH MS C 350 Molecular Sieve Paste should be kept closed in the original containers in order to keep its effectiveness. ALBOLITH MS C 350 Molecular Sieve Paste has a shelf life of 12 months. For longer storage periods we recommend to stir the paste before use to ensure homogeneity.

Packaging:

Plastic drums (120 kg).

Safety:

For further information on product safety please refer to the current safety data sheet.

Notice:

* General information - the values can not be considered as part of the product specification.