

# 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:                |          |                        | According to:  |
|-------------------------------|----------|------------------------|--|
| Solids content                | %        | 48.0 - 52.0            | ISO 3251   |
| Viscosity                     | mPas     | < 18000                | ISO 2555, Brookfield RVT<br>at 20°C, Spindle 5/<br>rpm 20/factor 200 |
| Potlife                       | min      | > 50                   |  |
| Further typical data*:        |          |                        | According to:  |
| Dispersing particle size      | μm       | max. 50                |  |
| Pore size                     | Å        | 3                      |  |
| Appearance                    |          | Light viscous<br>paste |  |
| Density                       | g/cm3    | 1.25                   | ISO 2811-1   |
| Hydroxyl value                | mg KOH/g | 77 - 87                | ISO 12966  |
| Water absorption              | %        | >10                    |  |
| based on the active matter at |          |                        |  |
| 80% rel. humidity and 25 °C   |          |                        |  |

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Alberdingk Boley GmbH | Düsseldorfer Str. 53 | 47829 Krefeld | Germany Phone +49 2151 528-0 | Fax +49 2151 573643 | info@alberdingk-boley.de | www.alberdingk-boley.de

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The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or the suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required.



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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.

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