

VESTANAT[®] EP*¹ -MF 205

(PRELIMINARY)

GENERAL DESCRIPTION

VESTANAT[®] EP-MF 205 is a solvent-based, ready catalyzed polymethoxysilane. It is used as a crosslinker or sole binder to formulate extremely flexible, highly scratch- and chemical resistant coatings., e.g. highly scratch resistant NISO² coatings. VESTANAT[®] EP-MF 205 is particularly characterized by an optimized price/performance ratio and a harmoniously tuned mechanical property profile.

²NISO = Non-isocyanate

TYPICAL DATA

| Property | Value | Unit | Test method |
|--------------------------|-----------|----------|-----------------|
| Viscosity at 23°C | 600 - 800 | mPas | DIN EN ISO 3219 |
| Colour (Hazen) | ≤ 100 | mg Pt/l | DIN EN ISO 6271 |
| Non-volatile constituent | 82 | % by wt. | calculated |

PROPERTIES AND APPLICATIONS

VESTANAT[®] EP-MF 205 can be used as a sole binder or in combination with appropriate resins (e.g. acrylate resins) to formulate highly scratch resistant coatings for e.g. wood, plastic, maintenance and if applicable for car refinish applications.

Isocyanate crosslinkers are not compatible and for hardening of the system not required. Solvents that are saponifiable such as e.g. esters, lead in conjunction with VESTANAT[®] EP-MF 205 to a significant reduction in storage stability. The curing of VESTANAT[®] EP-MF 205 takes place from 0°C. An accelerated drying above 40°C interferes the reactivity.

*¹ EP = Experimental Product

This is an experimental product at the development stage. No definitive statements can therefore be made as to type conformity, processability, long-term performance characteristics or other production or application parameters. Therefore, the purchaser/user uses the product entirely at its own risk without having been given any warranty or guarantee and agrees that the supplier shall not be liable for any damage, of whatever nature, arising out of such use. The figures given should be regarded as non-binding approximate data only, and not as guide values or binding minimum values. Commercialization and continued supply of this product are not assured. Its supply may be discontinued at any time.

STORAGE

VESTANAT® EP-MF 205 can be stored in unopened containers for at least one year at ambient temperature without loss of quality in accordance with the above displayed specification. Due to the fact that the product is sensitive to moisture we advise to store VESTANAT® EP-MF 205 in a tightly sealed container to avoid an increased entry of water for re-use. Due to the fact that the product is sensitive to elevated temperatures we advise to store VESTANAT® EP-MF 205 at room temperature to avoid an increased yellowing.

SAFETY AND HANDLING

The formation of methanol during curing must be taken into consideration. Provisions to protect workers have to be installed.

For further information on the safe handling of VESTANAT® EP-MF 205 please refer to our safety data sheet.

Marl, March 7, 2019; This data sheet replaces all former issues.

VESTANAT® is a registered trademark of Evonik Industrie AG or one of its subsidiaries.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

EVONIK RESOURCE EFFICIENCY GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

For contact in your country, please visit: www.evonik.com/crosslinkers-contact

EVONIK CORPORATION

Business Line Crosslinkers
299 Jefferson Road,
Parsippany, NJ 07054-0677
USA

EVONIK SPECIALITY CHEMICALS (SHANGHAI) CO., LTD.

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

