

VESTANAT® B 1481 ND**GENERAL DESCRIPTION**

VESTANAT® B 1481 ND is a caprolactam blocked aliphatic polyisocyanate. It is supplied as a 65% by wt. solution in a naphthalene depleted solvent naphtha.

SPECIFICATION

Property	Value	Unit	Test method*
Non volatile matter	65 ± 1	% by wt.	DIN EN ISO 3251 (2 h 110 °C, < 2 hPa)
Viscosity at 23 °C	2250 ± 750	m Pas	DIN EN ISO 3219

TYPICAL DATA

Property	Value	Unit	Test method
Free NCO content	≤ 0.1	% by wt.	DIN EN ISO 11 909 / ASTM D 2572
Latent NCO content	approx. 8.5	% by wt.	DIN EN ISO 11 909 (modified)
Splitting temperature	approx. 160	°C	–
Colour number (Gardner)	≤ 2	–	DIN EN ISO 463 / ASTM D 1544
Flash point (closed cup)	66	°C	DIN EN ISO 2719
Vapour pressure at 50 °C	≤ 50	hPa	–

PROPERTIES AND APPLICATIONS

Blocked polyisocyanate component with high flexibility for the combination with suitable hydroxyl functional resins, like polyesters, acrylics and alkyds.

VESTANAT® B 1481 ND formulated heat curing PUR coatings need curing temperatures of ≥ 160 °C. The low tendency to yellow during the curing process makes it very useful for the formulation of coil coating systems.

Typical properties of resulting coatings will be mainly influenced by the polyols used; VESTANAT® B 1481 ND itself is a resin with outstanding light and weather resistant properties.

The use of tin-catalysts, e.g. dibutyl-tin-dilaurate (DBTDL) in concentrations of 0.1 - 0.5 % by wt. on solid resin is recommended.

CURING CONDITIONS

Curing conditions depend on the reactivity of the polyol, the substrate and oven characteristics. If tin catalysts are used, 5 min. at 180 °C and 30 - 40 sec at 230 - 240 °C (PMT) are necessary for fully curing.

STORAGE AND PACKAGING

VESTANAT® B 1481 ND can be stored in unopened containers for at least one year without loss of quality in accordance with the above specifications.

VESTANAT® B 1481 ND is supplied in 25 kg non returnable cans and in 200 kg non returnable drums.

SAFETY AND HANDLING

Please refer to our Material Safety Data Sheet.

Marl, June 10, 2018; This data sheet replaces all former issues.

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