

VESTANAT[®] B 1186 A**GENERAL DESCRIPTION**

VESTANAT[®] B 1186 A is a caprolactam blocked cycloaliphatic polyisocyanate. It is supplied as a 60 % by wt. solution in solvent naphtha.

TYPICAL DATA

| Property | Value | Unit | Test method |
|-----------------------|-------------|----------|---|
| Non volatile matter | 60 ± 1 | % by wt. | DIN EN ISO 3251 (1.5 h 110 °C, < 2 hPa) |
| Viscosity at 23 °C | 1200 ± 600 | mPas | DIN EN ISO 3219 |
| Free NCO content | < 0.1 | % by wt. | DIN EN ISO 11 909 ASTM D 2572 |
| Latent NCO content | approx. 7.1 | % by wt. | DIN EN ISO 11 909 (modified) |
| Splitting temperature | 150 | °C | - |
| Colour (Hazen) | ≤ 150 | mg Pt/l | DIN EN ISO 6271 |

PROPERTIES AND APPLICATIONS

Blocked polyisocyanate for the combination with suitable hydroxyl functional resins for direct food contact*.

VESTANAT[®] B 1186 A enables the formulation of heat curing PUR coatings for curing temperatures of ≥ 150 °C with a low yellowing tendency during the curing process.

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

The data in the following table were determined in a circulating air drying oven using aluminium panels with 0.8 mm thickness and a DBTDL concentration of 0.5 % calculated on solid resin (OH/NCO 1:1).

*Restrictions and conditions of use as described in FCN-No.: 1268 must be taken into account to ensure compliance.

| System | Stoving times in minutes at an oven temperature of | | | |
|---|--|--------|--------|--------|
| | 150 °C | 160 °C | 180 °C | 200 °C |
| VESTANAT® B 1186 A / polyester (2.5 – 4.0 % OH) | 30 | 20 | 5 | 3.5 |
| VESTANAT® B 1186 A / acrylate (2.5 – 4.0 % OH) | 30 | 20 | 5.5 | 3.5 |

STORAGE AND PACKAGING

VESTANAT® B 1186 A can be stored in unopened containers for at least one year without loss of quality in accordance with the above specifications.

VESTANAT® B 1186 A 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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