

VESTANAT[®] EP*-T 1890 SN**GENERAL DESCRIPTION**

VESTANAT[®] EP-T 1890 SN is a cycloaliphatic polyisocyanate based on isophorone diisocyanate (VESTANAT[®] IPDI). It contains isocyanurate structures and has a NCO-functionality between 3 and 4. VESTANAT[®] EP-T 1890 SN is dissolved in solvent naphtha**.

PRELIMINARY SPECIFICATION

| Property | Value | Unit | Test method |
|---------------------|------------|----------|-------------------------------------|
| Non volatile matter | 70 ± 1 | % by wt. | DIN EN ISO 3251 (0.2 g, 1 h 120 °C) |
| NCO Content | 12.0 ± 0.3 | % by wt. | DIN EN ISO 11909, ASTM D 2572 |
| Viscosity at 23°C | 2000 ± 600 | mPas | DIN EN ISO 3219 |

TYPICAL DATA

| Property | Value | Unit | Test method |
|----------------|-------|----------|------------------|
| Colour (Hazen) | ≤ 80 | mg Pt/l | DIN EN ISO 6271 |
| IPDI-monomer | ≤ 0,5 | % by wt. | DIN EN ISO 10283 |

** Boiling Point/Range: 155°C - 186°C

* 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.

PROPERTIES AND APPLICATIONS

VESTANAT® EP-T 1890 SN is used as a crosslinker in 2K-PUR paints based on suitable polyesters, acrylates, flexible medium-oil or short-oil alkyd resins and other resins containing OH-groups. In combination with suitable polyols, polyurethane paints with outstanding weather resistance and light fastness are obtained. By partial use of VESTANAT® EP-T 1890 SN in 2K-PUR paints based on linear aliphatic polyisocyanates the drying performance, the surface hardness, the pot life of the chemical resistance against environmental etch can be improved.

CATALYSTS

The reactivity of VESTANAT® EP-T 1890 SN is lower compared to linear aliphatic polyisocyanates. Slow curing at ambient temperature and extremely long pot life can be a consequence of inadequate catalysis. In order to enhance the reactivity, the use of tin or bismuth based catalysts are recommended. The amount to be used depends on the type and the OH-number of the resin and is typically in the range of 0.01 and 0.1 % by wt., calc. on solid binder.

STORAGE AND PACKAGING

VESTANAT® EP-T 1890 SN can be stored in the tightly sealed original-container for at least one year without loss of quality in accordance with the above specification.

VESTANAT® EP-T 1890 SN is supplied in non returnable 200 kg drums.

SAFETY AND HANDLING

The product is used as raw material for the industrial manufacture of coating materials, adhesives, sealants and elastomers. The handling of such materials containing reactive polyisocyanates and residual monomeric diisocyanates requires appropriate protective measures. Therefore these products may be used only in industrial or professional applications. They are not suitable for use in homemaker (DIY) applications.

Please refer to our Safety Data Sheet.

Marl, April 18, 2019; This data sheet replaces all former issues.

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Disclaimer

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