

VESTANAT[®] T 1890 SV

GENERAL DESCRIPTION

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

PRELIMINARY SPECIFICATION

Property	Value	Unit	Test method
Non volatile matter	70 ± 2	% by wt.	DIN EN ISO 3251 (1.2-1.5 g, 1 h 150 °C)
NCO content	12.0 ± 0.3	% by wt.	DIN EN ISO 11 909, ASTM D 2572
Viscosity at 23 °C	2000 ± 600	mPas	DIN EN ISO 3219

TYPICAL DATA

Property	Value	Unit	Test method
Colour (Hazen)	≤ 80	-	DIN EN ISO 6271
Flash point (closed cup)	43	°C	DIN EN ISO 2719
IPDI-monomer	≤ 0.5	% by wt.	DIN EN ISO 10 283

PROPERTIES AND APPLICATIONS

VESTANAT[®] T 1890 SV 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[®] T 1890 SV 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® T 1890 SV 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. More information are available on request.

STORAGE AND PACKAGING

VESTANAT® T 1890 SV can be stored in unopened containers for at least one year without loss of quality in accordance with the above specification.

VESTANAT® T 1890 SV is supplied in non returnable 200 kg drums.

SAFETY AND HANDLING

The product is used as raw material for the industrial manufacture of resins and hardeners for 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, June 10, 2018; This data sheet replaces all former issues.

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Disclaimer

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