

Product information

VESTANAT[®] EP* -DS 1205 E

(PRELIMINARY)

GENERAL DESCRIPTION

VESTANAT EP-DS 1205 E is a blocked polyisocyanate based on the cycloaliphatic VESTANAT IPDI (Isophoronediiisocyanate) emulsified in water without any auxiliary solvents.

Combined with water dilutable or in water emulsified OH-terminated resins it is used to formulate one component, heat curing coating systems.

The crosslinking occurs above the splitting temperature while the blocking agent evaporates.

TYPICAL DATA

Property	Value	Unit	Test method
Appearance	white milky liquid	-	visual
Non volatile matter	42 ± 1	% by wt.	DIN EN ISO 3251 (60 min. 105 °C)
pH-value	8.9 ± 0.5	-	DIN ISO 976
blocked NCO-content (resin)	11	% by wt.	calculated
splitting temperature	approx. 145	°C	
Viscosity at 23 °C D=200 s ⁻¹	20 - 200	mPa s	DIN EN ISO 3219
Flash point (closed cup)	> 100	°C	DIN EN ISO 2719

PROPERTIES AND APPLICATIONS

VESTANAT EP-DS 1205 E is a blocked polyisocyanate for the crosslinking of OH-terminated resins/dispersions. Combined with suitable polyols, preferably resins with low glass transition temperature (T_g lower than 10 °C), coatings with excellent yellowing resistance and weather stability are achieved. Information about suitable resins are available on request.

VESTANAT EP-DS 1205 E can be used as sole crosslinker or in combination with melamine resins. The compatibility to the used melamine resin should be tested in every case.

CATALYSIS

The use of hydrolytical stable tin catalysts in concentration of 0.1-0.5 % by wt. (calculated on solid resin) can have an accelerating effect. During storage of the formulated system, the activity of the catalyst may decrease occasionally.

* EP = Experimental Product

STORAGE AND PACKAGING

VESTANAT EP-DS 1205 E can be stored in unopened containers for at least 6 months without loss of quality in accordance with the above specification.

It is essential to homogenise the product before use. Temperatures below 0°C as well as storing of partially unloaded containers has to be avoided.

VESTANAT EP-DS 1205 E is supplied in 25 kg and 200 kg one-way plastic containers.

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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