

## Product information

# VESTANAT<sup>®</sup> EP\* -DS 1205 TFO

(PRELIMINARY)

## GENERAL DESCRIPTION

VESTANAT<sup>®</sup> EP-DS 1205 TFO is a blocked polyisocyanate based on the cycloaliphatic VESTANAT<sup>®</sup> 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 <sup>-1</sup>	20 - 200	mPa s	DIN EN ISO 3219
Flash point (closed cup)	> 100	°C	DIN EN ISO 2719

\* 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-DS 1205 TFO is a blocked polyisocyanate for the crosslinking of OH-terminated resins/dispersions. Combined with suitable polyols, preferably resins with low glass transition temperature (TG 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 TFO 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.

## STORAGE AND PACKAGING

VESTANAT® EP-DS 1205 TFO 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 TFO 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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### Disclaimer

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