

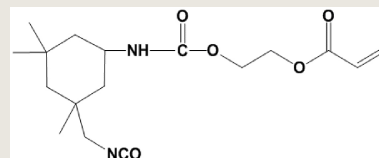
Product information

VESTANAT[®] EP*-DC 1241

2-HYDROXYETHYL-PROPENOATE, ADDUCT WITH 5-ISOCYANATO-1-(ISOCYANATOMETHYL)-1,3,3-TRIMETHYLCYCLOHEXANE (1:1)

FORMULA: C₁₇H₂₆N₂O₅

MOLECULAR WEIGHT: 338.4G/MOL



GENERAL DESCRIPTION

VESTANAT[®] EP-DC 1241 is a solvent free, heterofunctional monomer comprising both, an isocyanate group and an acrylic function as well. It is based on isophorone diisocyanate (IPDI) and a hydroxyfunctional acrylate.

SPECIFICATION (PRELIMINARY)

| Property | Value | Unit | Test method |
|-----------------|------------|----------|-------------------|
| NCO content | 11.7 ± 0.3 | % by wt. | DIN EN ISO 11 909 |
| Monomeric IPDI | ≤ 1 | % by wt. | DIN EN ISO 10283 |
| Viscosity, 23°C | 13 ± 2.5 | Pa s | DIN EN ISO 3219 |

* 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.

TYPICAL DATA

| Property | Value | Unit | Test method |
|---------------|-------|----------|-----------------|
| Solid content | 100 | % by wt. | DIN EN ISO 3251 |
| Mono adduct | ~ 95 | % by wt. | GC method |
| Di adduct | ~ 5 | % by wt. | GC method |

STORAGE AND PACKAGING

VESTANAT® EP-DC 1241 is supplied in non-returnable 200 kg net drums. VESTANAT® EP-DC 1241 can be stored in unopened containers for at least 6 months without loss of quality in accordance with the above specification.

PROPERTIES AND APPLICATION

VESTANAT® EP-DC 1241 is used to incorporate acrylic functions into PUR resins or NCO groups into acrylates to form lightfast and weathering resistant UV-curing coatings and adhesives. The content of diisocyanate monomer is reduced to a low level, offering some special advantages.

Due to the low content of diisocyanate monomer the formation of higher molecular weight compounds is reduced, resulting in a lower viscosity of the resin compared to conventional processed adducts.

EXAMPLE:

| Viscosity | VESTANAT EP-DC 1241 | conventional adduct |
|---|---------------------|---------------------|
| UV resin based on a polyester (MW 1000) | 38000 mPa s | 60000 mPa s |
| UV resin based on a polyester (MW 2000) | 26000 mPa s | 52000 mPa s |

SAFETY AND HANDLING

Please refer to our Safety Data Sheet.

Marl, June 10, 2018; This data sheet replaces all former issues.

VESTANAT® is a registered trademark of Evonik Industrie AG or one of its subsidiaries.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

For contact in your country, please visit: www.evonik.com/crosslinkers-contact

EVONIK CORPORATION

Business Line Crosslinkers
299 Jefferson Road,
Parsippany, NJ 07054-0677
USA

**EVONIK SPECIALTY CHEMICALS
(SHANGHAI) CO., LTD.**

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

