

# Desmoderm<sup>®</sup> TXC EHC-01/1 (former Impranil EHC-01/1)

<b>Type</b>	Desmoderm TXC EHC-01/1 is a one-component polyester urethane based on an aromatic diisocyanate.
<b>Form supplied</b>	Transparent to slightly opaque granules
<b>Uses</b>	Solutions of Desmoderm TXC EHC-01/1 are suitable for use as topcoats applied by direct and transfer coating, especially in the manufacture of technical articles which are expected to have a long service life.

## Specification

Property	Value	Unit of measurement	Method
Viscosity* 23°C 25 % solution in dimethyl formamide/methyl ethyl ketone (3:2)	8.000-20.000	mPa.s	DIN EN ISO 3219/A.3

\* The viscosity can be measured with e.g. a Haake Viscotester VT23 rotational viscometer (E100 test body). The viscosity is primarily a function of the solvent used.

## Special properties

- Extraordinary resistance to hydrolysis
- Good low-temperature flexibility
- Suitable for high-frequency welding

## Processing/application

### Solutions

Desmoderm TXC EHC-01/1 ist soluble in mixture of

- dimethyl formamide
- methyl ethyl ketone
- toluene

Example:      Approx. 25 %  
                    solution in  
DMF/MEK      = 80:20 or 60:40 or  
DMF/Tol        = 80:20

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## Film properties\*

The data given below are average values measured in approx. 0.1 mm transparent films of 25 % solids solution in dimethyl formamide/methyl ethyl ketone (3:2)

Property	Value	Unit of measure	Test method
100 % modulus	7	MPa	DIN 53504
Tensile strength			
- original	45	MPa	DIN 53504
- after 14 d hydrolysis	45	MPa	DIN 53504
- after 28 d hydrolysis	35	MPa	DIN 53504
- after 400 h Xenotest with 0,5 % Tinuvin <sup>®</sup> 765 (Ciba)	40	MPa	DIN 53504
Elongation at break			
- original	450	%	DIN 53504
- after 14 d hydrolysis	450	%	DIN 53504
- after 28 d hydrolysis	400	%	DIN 53504
- after 400 h Xenotest with 0,5 % Tinuvin <sup>®</sup> 765 (Ciba)	150	%	DIN 53504
Lightfastness			
- transparent, without light stabilizer	3		DIN EN ISO 105-B02
- transparent, with 0.5 % Tinuvin <sup>®</sup> 765	5		DIN EN ISO 105-B02
Volume swelling (2 h at room temperature)			
- ethyl acetate	100	%	

The volume swelling decreases again as the solvent evaporates.

\*These values provide general information and are not part of the product specification.

## Storage

When stored in a cool dry place, Desmoderm TXC EHC-01/1 will remain stable for 12 months from delivery ex works.

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## Safety

### Hazards identification

Not a hazardous substance of preparation according to EC-directives 2006/121/EC or 1999/45/EC.

### The safety data sheet should be observed.

This contains information on labeling, transport and storage as well as on handling, product safety and ecology.

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