

## PUD 102

Waterborne polyurethane dispersion

### PRODUCT DESCRIPTION

PUD 102 is an aqueous aliphatic polyurethane dispersion.

### CHARACTERISTIC

<b>Chemical Structure</b>	Waterborne, anionic, polyester-based polyurethane dispersion		
<b>Appearance</b>	Milky Liquid		
			<b>Reference method</b>
<b>Non-volatile content</b> (by weight % (105°C))	%	40±2	ASTM D2369-07
<b>pH (23°C)</b>		8±1	ISO 976
<b>Viscosity (23°C)</b>	cps	<2000	ISO 1652, Brookfield RVT Spindle R3

### FILM PROPERTIES

			<b>Reference Method</b>
<b>100% Modulus</b>	N/mm <sup>2</sup>	2	ASTM D1708-18
<b>Elongation at break</b>	%	>1000	ASTM D1708-18
<b>Tensile strength</b>	N/mm <sup>2</sup>	18	ASTM D1708-18
<b>MFFT</b>	°C	<0	ASTM D2354
<b>Light Fastness</b>	Five scale	5/5	EN ISO 105-B02

Films are dried at room temperature

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### KEY PROPERTIES

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- Good chemical resistance in a garment wash
- Elasticity
- Special polymer

### APPLICATIONS

- PUD 102 can be diluted with water.
  - It can be formulated with crosslinkers, pigments, thickeners, and other additives.
  - It is useful for elastane barrier formulations
- ! Mix well before use.

### PACKAGING & STORAGE

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**Packaging type**

120 kg plastic drums, 1000 kg IBC's.

**Storage**



In originally closed containers' dispersions are stable when stored at 10°C-30°C for 6 months. The containers must be well closed to prevent the evaporation of water which may result in the formation of a non-redispersible film. The recommended temperature-range for storage is freezing or storage at higher temperatures than 30°C can affect the viscosity or the average particle size and finally lead to a sedimentation or coagulation. A contamination with bacteria, fungi or algae can damage the product irreversibly. A longer storage than six months does not mean that the product is not usable anymore, but we recommend to checking the specification data before use.