PUD 103

Waterborne polyurethane dispersion

PRODUCT DESCRIPTION

PUD 103 is an aqueous, aliphatic polyether-based polyurethane dispersion.

CHARACTERISTIC

Chemical Structure	Aqueous, aliphatic, polyether-based polyurethane dispersion
Appearance	Translucent Liquid

			Reference method
Non-volatile content by weight % (105°C)	%	27±1	ASTM D2369-07
pH (23°C)		5±1	ISO 976
Viscosity (23°C)	cps	<2000	ISO 1652, Brookfield RVT Spindle R3

FILM PROPERTIES

			Reference Method
100% Modulus	N/mm^2	*	ASTM D1708-18
Elongation at break	%	*	ASTM D1708-18
Tensile strength	N/mm^2	*	ASTM D1708-18
MFFT	^0C	nda	ASTM D2354
Light Fastness	Five scale	*	EN ISO 105-B02

Films are dried at room temperature

nda: no data available

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KEY PROPERTIES

- Thermo-reactive
- Self-crosslinking
- Low molecular weight
- Improve hydrophilicity
- Reduces the tendency of pilling

APPLICATIONS

- PUD 103 can be diluted with water.
- Better permanent touches than other solutions in some cases.
- Foulard applications

! Mix well before use.

PACKAGING & STORAGE

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 checking the specification data before use.

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