PUD 309

Waterborne polyurethane dispersion

PRODUCT DESCRIPTION

PUD 309 is an aqueous acrylic-urethane hybrid dispersion.

CHARACTERISTIC

Chemical Structure	Anionic, acrylic-urethane hybrid dispersion
Appearance	Milky Liquid

			Reference method
Non-volatile content by weight % (105°C)	%	50±2	ASTM D2369-07
pH (23°C)		8±1	ISO 976
Viscosity (23°C)	cps	<2000	ISO 1652, Brookfield RVT Spindle R3
Density (23°C)	g/ml	1,04±0,01	ASTM D1217-20

FILM PROPERTIES

			Reference Method
100% Modulus	N/mm^2	10	ASTM D1708-18
Elongation at break	%	<160	ASTM D1708-18
Tensile strength	N/mm^2	14	ASTM D1708-18
MFFT	^0C	<0	ASTM D2354
Light Fastness	Five scale	nda*	EN ISO 105-B02

The films were dried under ambient conditions (23°C ± 2°C, 50% ± 5% relative humidity).
nda*:No Data Available

Head office Denge Kimya ve Tekstil San. Tic A.S-Velimese OSB Mah 259 No:4-1 Ergene /Tekirdag Phone +902826745400

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KEY PROPERTIES

- Good adhesion
- Transparent film properties
- Good chemical resistance
- Good water resistance
- Excellent impact resistance
- Good ability to sand on wood
- Excellent flexibility on metal surfaces

APPLICATIONS

- PUD 309 can be diluted with water
- It is compatible with acrylic emulsion, alkyd emulsion and wax emulsion
- It can be combined with polyaziridine, epoxy-functional silane or amino-functional silane
- It can be used for a primer, topcoat, clear coat or self-sealer
- It can be formulated with inorganic fillers and pigments, wetting agents, deaerating agents, thickeners, anti-foaming agents, plasticizers, dispersing agents
- Suitable for spray, brush and roller coating
- It can be used on wood and metal surfaces

! Mix well before use.

Get inspired by our guide formulations and request a guide formulation.

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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 to checking the specification data before use.