

SiwoPUD-[®] OH-903

Characteristics: Aqueous, aliphatic hydroxy-functional polyurethane dispersion based on polyester.

Supplied as: 33% in water

Physical characteristics:	Appearance	White translucence
	Non-volatile constituent	33 ±1 %
	OH content (solvent free)	1.5%
	PH value	7.0 - 9.5
	Viscosity	≤300 mPa s
	Mean particle size	≤100 nm
	Minimum film-forming temperature	5°C
	Organic solvents	≈ 0
	Dry/touch	≤30min
	Dry/through	≤60min
	Yellowing resistance	Non- yellowing
	Shear stability	good

Storage: The dispersion should be stored in a frost-free place in tightly sealed containers. It contains no preservative.

Application: It mainly be used in 2-pack systems with water-dispersible polyisocyanate crosslinker. It can be used for wood, metal, and other decorating coatings. It is suggested that OH-PUD-903 dispersion is crosslinked with 10-15% water-dispersible polyisocyanate to maximize performance properties. The dispersion is not suitable for 1-pack systems.

After air-drying, the coatings based on 2-pack systems have excellent surface hardness, high gloss, excellent ductility, excellent abrasion resistance, excellent water resistance, and excellent chemicals resistance.

A characteristic of 2-pack systems based on OH-PUD-903 dispersion and water-dispersible polyisocyanate is that the hardener component is easy to incorporate into the base varnish manually, these systems are also suitable for DIY applications. The 2-pack systems have a longer potlife and short drying time, which is suitable for actual applications.

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