

## **SiwoPUD<sup>®</sup>-OH-1938**

**Characteristics:** Aqueous, aliphatic hydroxyl-functional polyurethane dispersion based on polycarbonate.

**Supplied as:** 35% in water

<b>Physical characteristics:</b>	Appearance	Milk white to translucence
	Non-volatile constituent	35 ±1 %
	OH content (solvent free)	2.5%
	PH value	7.0 - 9.5
	Viscosity	≤500 mPa s
	Mean particle size	≤200 nm
	NMP, NEP, DMAC	Free
	Elongation	250-350% (No crosslinker added)
	Tensile strength	18.5Mpa (No crosslinker added)
	100%Modulus	6.7Mpa (No crosslinker added)
	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 has higher hydroxyl content, high hardness, and excellent abrasion resistance, weather resistance and hydrolysis resistance. It can be used alone or mixed with water-based hydroxy polyacrylic resin and water-based polyester etc. It mainly be used in 2-pack systems with water-dispersible polyisocyanate crosslinker or be combined with an amino resin to formulate water-dilutable stoving coatings and primers which cure at approx. 120-130°C. The dispersion is not suitable for 1-pack systems.

After drying, the coatings based on 2-pack systems show more excellent surface hardness, more excellent abrasion resistance, more excellent water and chemicals resistance.

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