Answers for waterborne coatings & adhesives

思沃®化学
SiwoChem

SiwoPUD®-U-679

Characteristics: It is also based on polycarbonate waterborne polyurethane, similar to U-678.

Supplied as: 50% in water

Physical characteristics:

Appearance	Milky white
Non-volatile constituent	48-50%
PH value	6.0 – 9.0
Viscosity	≤800 mPa·s
Density(d_4^{20})	1.05
NMP, NEP, DMAC etc.	Free
Minimum film-forming temperature	5℃
Minimum activation temperature	120-130℃
Yellowing resistance	Non- yellowing

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

Application: Anionic high-molecular-weight polyurethane dispersion, a raw material for heat-activated polyurethane adhesives. It features a relatively high heat activation temperature, good anti-blocking properties and initial tack, and high bond strength. It provides excellent adhesion to most synthetic and natural materials. Compared with our U-658 and U-676, it offers better hydrolysis resistance and aging resistance. Suitable for heat-activated bonding of fabrics, leather, packaging materials, and other substrates. The addition of 2-5% water-dispersible polyisocyanate curing agent (e.g., EC-600 produced by our company) can significantly enhance its high-temperature bonding performance. For heat-activated bonding applications, U-679 is recommended at 130-140℃ or higher, to ensure full activation of the dried adhesive layer. The actual temperature required for a specific application depends on the applied pressure, dwell time, and the substrates being bonded. Product stored for more than 12 months can be used only after passing relevant tests.They exhibit good compatibility with other waterborne resins, including slightly acidic resins and substances.

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