Answers for waterborne coatings & adhesives

思沃®化学
SiwoChem

SiwoPUD®-U-658

Characteristics: It is aqueous anionic dispersions of a high molecular weight polyurethane. It is raw material for formulation of heat-activated adhesives for use in, for example, the furniture, automotive, and construction industries.

Supplied as: 50% in water

Physical characteristics:

Appearance	Milky white
Non-volatile constituent	50±1 %
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	70-80℃
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 water dispersion. Features higher heat activation temperature, good initial tack, and high bond strength. Exhibits excellent adhesion to most synthetic and natural materials, making it suitable for heat-activated bonding of wood, PVC, and shoe adhesives. Adding 2-5% of a water-dispersible polyisocyanate hardener (such as our company's EC-600) can significantly enhance its high-temperature bonding resistance.

For heat-activated bonding applications, it is recommended to use a temperature of 80-90℃ or higher to ensure that the dried adhesive layer is sufficiently activated. The actual temperature required for a specific application depends on the applied pressure, pressure duration, and the substrates being bonded. Products stored for more than six months can be used only after passing the test。

It has good compatibility with other water-based resins, including those that are slightly acidic.

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