

Aqueous Polyurethane Dispersion

Technical Data Sheet

Name: Adwel 1665A
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Product Description

Adwel 1665A is an aqueous anionic aliphatic polyurethane dispersion for automotive interior adhesive industry. It has excellent bonding property on most natural and synthetic materials. It possesses advantages of low heat activated temperature and rapid crystallization. Its bonding strength, heat resistance and hydrolysis resistance can be enhanced by adding an appropriate amount of water dispersible polyisocyanate hardener (such as Aquolin®166). Solvent: <1% acetone. It's APEO, organotin and organic amine neutralizing agent free. Biocide: CMIT/MIT 3:1 14ppm and P30s 100ppm.

Properties

1. Low heat activated temperature
2. Excellent initial tacky property
3. Excellent bonding strength

Characteristic data*

Property	Value	Unit	Method
Appearance	Milky white liquid		
Weight Solids	50±1	%	WHPU/T011-571-2017 (5cm,150°C,20min)
pH	6.0-9.0		GB 8325-1987
Viscosity	200-2000	mPa·s	GB/T 2794-2013 (Brookfield,RV,3#/20rpm,25°C)
Density	1.04-1.09	g/cm ³	GB/T4472-2011
Activated temperature	50-55	°C	SP-WHSM-07-1028
MFFT	<5	°C	SP-WHSM-07-1029

*These properties are typical but do not constitute specifications.

Adwel 1665A



Handling and Precautions

1. If the product needs to be diluted, we recommend deionized water must be used; Tap water may cause flocculation or demulsification.
2. If the product needs to be mixed with other products, compatibility and storage stability must be tested.
3. After mixed with isocyanate curing agent, it should be used up in 4 hours, and the residues should not be poured back to the primary product.

Storage

The validity of this product is 6 months and performance must be assessed if the product exceeds the shelf life. The product should be stored above 10°C and below 35°C. Temperature below 10°C will cause viscosity increase or irreversibly damage. Prolonged storage at high temperature will have negative impacts on products and may cause sedimentation or coagulation. The product should be protected from direct sunlight with the integrity of the packaging to avoid skinning. It is strongly suggested to filter before further application as skinning or gel may form inevitably during storage and transport.

Disclaimer: Wanhua Chemical Group Co., LTD. recommends that customers should check with Materials Safety Data Sheet (MSDS) for details about safety instructions. We also suggest that you contact the suppliers of other materials used in our recommended formulations and consult appropriate health and safety regulations prior to use. The information contained herein is believed to be reliable. However, nothing in this technical sheet should be considered as a representation of warranty, express or implicit, regarding the product characteristics, application, quality, safety, merchantability or fitness for a particular purpose. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.