Adwel® 1675

Aqueous Polyurethane Dispersion

Technical Data Sheet

Name: Adwel® 1675
Revision Date: 2018-01-10

NO. WHSM_1675
Version: 1.0

Product Description

Adwel® 1675 is an aqueous anionic aliphatic polyurethane dispersion. It is a raw material for the formulation of heat activated adhesives. Adwel® 1675 has excellent bonding properties on most natural and synthetic materials. Adwel® 1675 possesses advantages of rapid crystallization and excellent initial tacky property designed for automotive interior industry. Its bonding strength, heat resistance and hydrolysis resistance can be enhanced by adding an appropriate amount of water dispersible polyisocyanate hardener (such as Aquolin®161). Solvent: <1% acetone. It's APEO, organotin and organic amine neutralizing agent free. Biocide: CMIT/MIT 3:1 30ppm CMIT/MIT 3:1 49ppm, MIT 100ppm.

Properties

1. Rapid crystallization
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℃,20min)
pH	6.0-9.0		GB/T 14518-1993
Viscosity	500-3000	mPa·s	GB/T 2794-2013 (Brookfield LV,63#/30rpm)
Density	1.04-1.09	g/cm^3	GB/T 4472-2011
Activated temperature	55-60	℃	SP-WHSM-07-1028
MFFT	Approx. 10	℃	SP-WHSM-07-1029

*These properties are typical but do not constitute specifications.

Adwel® 1675

Handling and Precautions

1. If Adwel® 1675 needs to be diluted, deionized water must be used; if not, flocculation or demulsification may occur.

2. If Adwel® 1675 needs to be mixed with other products, compatibility and storage stability must be tested.

3. With addition of Aquolin® 161 as crosslinker, the system has a pot life of approximately 4 hours and should not be poured back to the adhesive if not used completely; otherwise, it will be cured after long time storage.

Storage

The validity of this product is for 6 months, and performance should be assessed if the product has been out of shelf life. The product should be stored above 10°C and below 35°C. Temperatures below 10°C will result in viscosity rising or irreversibly damaged. Prolonged storage at higher temperatures may affect the product properties and possibly result in sedimentation or coagulation. The product should be protected from direct sunlight with the integrity of the packaging, to prevent evaporation of water and the formation of films on the surface. Films or lumps can form during storage and transport of the product due to its film forming nature. A filtration process is necessary before further application.

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.

This is a trial product. Further information may be compiled in the future. Commercialization and continued supply of this material are not assured.