



Dispercoll® U

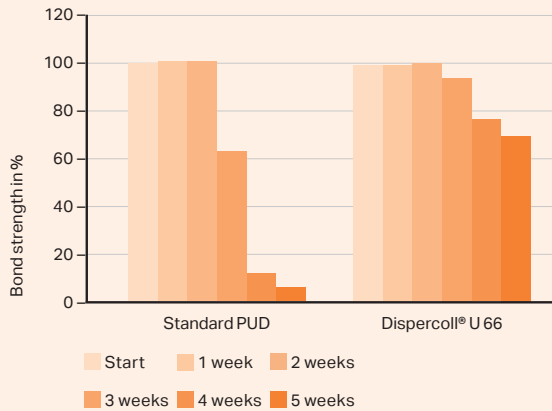
Waterborne PU dispersion with improved climate resistance



Dispercoll® U 66

Waterborne PU dispersion with improved climate resistance

Climate resistance of canvas bonds (2c) 5 weeks at 70°C/95% rel. humidity



Dispercoll® U 66	Value	Unit	Test method
pH	6.0–9.0		DIN ISO 976
Viscosity	< 1,000	mPa · s	DIN 53019
Nonvolatile content	ca. 48	%	DIN EN ISO 3251

Lamination of automotive interior parts



Lamination of wood panels



The polyurethane dispersions from Covestro's Dispercoll® U product line offer the adhesive industry an ideal basis for formulating adhesives that meet current and future requirements in a variety of bonding applications.

Dispercoll® U 66, a new waterborne dispersion of an anionically modified semicrystalline polyurethane, is suitable for formulating environmentally friendly heat-activated adhesives that can be used, for example, in the furniture, automotive and footwear industries for bonding various natural and synthetic materials.

Dispercoll® U 66 can be used on its own or in combination with most waterborne polyurethane adhesive dispersions from the Dispercoll® U product range, e.g., Dispercoll® U 53 or Dispercoll® U 56. To get the maximum bonding performance out of an adhesive based on Dispercoll® U 66, we recommend adding approx. 3–5% of a water-emulsifiable isocyanate crosslinker from the Desmodur® D product range.

Figure 1 shows the exemplary climate resistance of canvas bonds after storage at 70°C and 95% humidity over a period of five weeks. The bonds were made by using a standard heat-activated polyurethane adhesive and comparing that performance with a Dispercoll® U 66 based adhesive, both in combination with 4% Desmodur® DN as crosslinker. The Dispercoll® U 66 based adhesive shows high bond strength values over a period of at least five weeks, while the standard adhesive shows significantly reduced bond strengths after approx. three weeks in the test climate.

The characteristic polymer properties of Dispercoll® U 66 make it particularly suitable for formulating adhesives requiring extended climate resistance and long-term durability. Typical areas of application for adhesives based on Dispercoll® U 66 are the lamination of automotive interior parts and the lamination of wood panels in the furniture industry.



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