



First bio-based NIPU coatings on textiles

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The developed waterborne dispersions of bio-based non-isocyanate polyurethanes (NIPU) were applied as an adhesive layer on textiles (Figure 1). After adding processing additives, the formulations were applied via direct and transfer coating. A commercial waterborne PU coating was used as topcoat. The wash fastness was assessed by performing 10 washing cycles at 40°C. After 10 washing cycles the coatings showed no defects.



Figure 1: bio-based NIPU adhesive layer applied via transfer coating

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