

Biobased Materials For Polyurethane Dispersions

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Bio -based polyurethane dispersions are attracti ng increased attention due to environmental concerns and the realization t hat global petroleum resources are finite, which not only can replace...

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[\(PDF\) Biobased materials for polyurethane dispersions | Chemistry International - Academia.edu](#) Nowadays, most of the commercially available resins are synthesized from petroleum based stocks. Besides exhibiting excellent properties, synthetic resins are coming under increasing restrictions due to tightening environmental exposure regulations,

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Biobased materials for polyurethane dispersions. Chemistry International 2(3) (2016) 158-167. INTRODUCTION Aqueous polyurethane (PU) dispersion is a binary colloidal system in which PU particles are dispersed in a continuous aqueous media (Mohaghegh et al., 2005). Most conventional PU dispersions are high molecular weight ionic polymers

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In this study, two different bio-based waterborne polyurethanes (WBPU) that use castor oil and tartaric acid in their formulations were modified by the incorporation of a renewable reinforcement, cellulose nanocrystals (CNC), to be further applied as metal coatings of tailored properties.

[Bio-based waterborne polyurethanes reinforced with...](#)

Bio-derived material, such as vegetable oils, cashew nut shell liquid (CNSL), terpene, Eucalyptus tar and other bio-renewable sources, constitute a rich source of precursors for the synthesis of polyols and isocyanates which are being considered for the production of " greener " PU coatings.

[Bio-based polyurethane: An efficient and environment...](#)

With the introduction of PDI in the market, it is now possible to commercially produce a 100% bio-based polyurethane. Bayer MaterialScience announced that it has developed a bio-based hardener for PU coatings and adhesives under the brand Desmodur® eco N 7300, which is based on PDI. These coatings can now be formulated entirely from bio-based materials using renewable-based polyols, cross-linkers and PDI.

[100% bio-based Polyurethane in the market | Green ...](#)

Waterborne bio-based polyurethane dispersion Impranil® eco We developed waterbased PU to eliminate solvents like DMF in textiles, decrease the water consumption by 95% & the energy consumption by 50% Through incorporating renewable materials we further increase the sustainability

[Sustainable Polyurethanes from biobased chemicals](#)

Aptalon™ 8080HS is a high solid, waterborne, one component, self-crosslinking polyamide polyol polyurethane dispersion with a high bio -based 1 content designed for clear wood finishes.

[Bio-Based High Solids Waterborne Polyurethane Dispersion](#)

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Bayer MaterialScience is introducing a range of waterborne, bio-based polyurethane dispersions under the Impranil® eco name. With a renewable content that reaches as high as 65 percent, this product class contributes to a further reduction of CO 2 emissions, thus further improving the sustainability of waterborne PU. The first products in the series were developed specially for use in fashion apparel, accessory and footwear applications.

[Bayer MaterialScience increasingly using ... - Bio-based News](#)

A report on ' Bio-Based Polyurethane Market' Added by Market Study Report, LLC, features the recent and upcoming growth trends of this business in addition to accurate details related to the myriad geographies that comprise the regional spectrum of the Bio-Based Polyurethane market.

[Bio-Based Polyurethane Market Overview, Industry Top...](#)

Polyurethane Dispersion, or PUD, is understood to be a polyurethane polymer resin dispersed in water, rather than a solvent. Its manufacture involves the synthesis of polyurethanes having carboxylic acid functionality or nonionic hydrophiles like PEG incorporated into, or pendant from, the polymer backbone.

[Polyurethane dispersion - Wikipedia](#)

The water-dispersible polyurethane polymer includes hydrophobic oligomeric polyether soft segments that include 1,2-di-substituted oxyethylene repeating units.

[US8952093B2 - Bio-based polyurethane dispersion ...](#)

2.2.3 Aqueous polyurethane dispersions 39 2.3 Isocyanate free routes to bio based polyurethanes 42 2.3.1 Through carbonate amine reactions 42 2.3.2 Through transurethanization and self condensation 44 2.4 Conclusions 46

[Bio-based poly\(urethane ureal\) dispersions : chemistry ...](#)

DuPont Nutrition & Biosciences (Wilmington, Del.) and Kemira Oyj (Helsinki, Finland) announced an exclusive partnership for the development and commercialization of DuPont ' s enzymatic polymerization-based polysaccharide platform technology for certain applications. The collaboration will bring new, biobased and inherently biodegradable product lines to Kemira ' s strategic markets including ...