

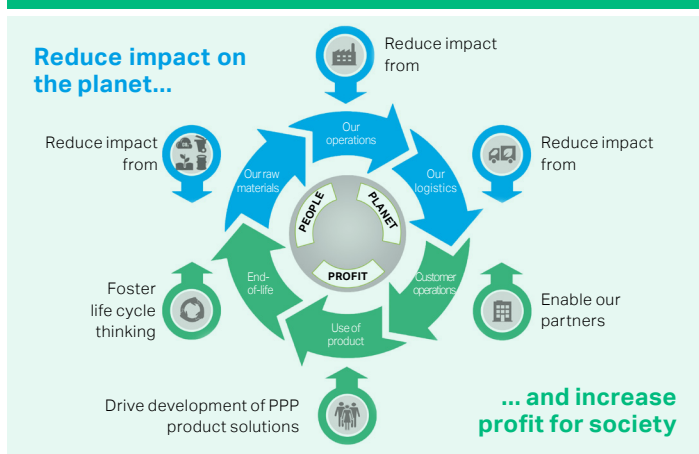


**INSQIN**<sup>®</sup> new partially bio-based polyurethane dispersions for textile coatings.

**Impranil**<sup>®</sup> CQ



## Sustainability targets



## High performance enabled by nature: New partially bio-based polyurethane dispersions for textile coatings

Increasingly, sustainability is affecting the product and raw material purchasing decisions of customers, brand owners, and consumers. Biomass is already the raw material basis for around 10% of all chemical products. New technologies, cooperative agreements and product developments will enable the textile coating industry to move forward in using more products based on renewable resources.

Covestro has developed a technology to raise the content of renewable resources in polyurethane dispersions (PUDs) to 56%. This makes new levels of sustainability possible for PU-coated textile materials. Thanks to this development, it is now possible for manufacturers to produce coated fabrics with a low content of fossil-based raw materials. These partially bio-based products offer the same level of properties as products based on traditional raw materials.

### Key benefits of Impranil® CQ PUDs:

- 34%–56% renewable carbon content derived from non-fossil-based inputs.

Impranil®	CQ DL 519 Top coat	CQ DLS/1 Intermediate & part of top coat	CQ DLU Intermediate & part of top coat	CQ DL 1878 Tie coat
Renewable content (% solid)	approx. 38%*	approx. 50%*	approx. 34%**	approx. 56%*

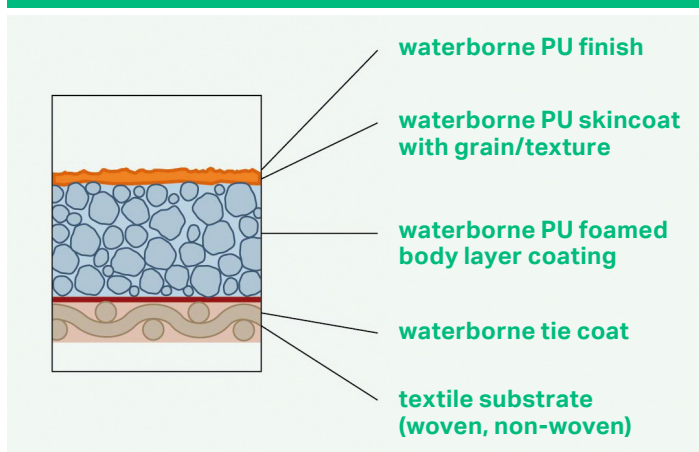
- Good light fastness, excellent resistance to abrasion.
- Superior perceptual quality.
- More environmentally friendly.
- Better water and energy utilization during production.
- Suitable to be used for a variety of textile coating applications.
- Excellent compatibility with conventional PUDs.

\* % renewable carbon, 14C measurement according to ASTM-D6866 standard  
\*\* calculated by raw material

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<sup>1</sup> Please see the "Guidance on Use of Covestro Products in a Medical Application" document.  
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## Synthetic leather structure



## Pilot plant production



Covestro Deutschland AG  
Kaiser-Wilhelm-Allee 60  
51373 Leverkusen  
Germany

www.insqin.com  
textilecoatings@covestro.com