



Create PU coatings without the petroleum

A plant-based, petroleum-free diol

We believe that major strides in innovation can leave smaller environmental footprints. From performance polymers to coatings, binders, polyurethanes, and bio-solvents, our 100% bio-based Susterra® propanediol (1,3-propanediol or PDO) continues to unlock the power of nature to enable more sustainable solutions that never sacrifice performance.

Performance comes naturally

Susterra® propanediol is 100% plant-based, petroleum-free, and offers high-performing, sustainable solutions for a wide range of polyurethane coating applications. And because it's renewably sourced, Susterra® propanediol generates up to 48% less greenhouse gas emissions cradle-to-gate compared to common petrochemical-sourced alternatives.



Harvest



Fermentation



Refining

Renewably sourced. Regeneratively farmed.

Susterra® propanediol products are bio-based, USDA certified, and GMO-free. They are also renewably sourced and benefit from a regeneratively farmed dent corn feedstock that is certified by the USDA BioPreferred® program as a 100% bio-based ingredient —helping you boost your renewable content while reducing your carbon footprint.





Susterra® PDO for PU dispersions provides:

- Increased stain and chemical resistance
- High thermal stability
- Improved flexibility
- Good scratch and abrasion resistance
- Good adhesion properties
- Good hydrolytic aging properties

Replace BDO glycols in PU dispersions

Susterra® propanediol is a 100% bio-based diol that effectively replaces petroleum-based BDO glycols in polyurethane resins and dispersions for PU coatings. This bio-based alternative can be used as both a building block monomer and chain extender, providing flexibility in formulating PU dispersions.

Boost renewable content in PU coatings

We're committed to helping companies achieve their short- and long-term goals for increasing renewable content in coatings formulations. Polyester and polyether polyols produced with Susterra® propanediol enable the introduction of renewable, bio-based material into PU resins and dispersions.

More possibilities for sustainable performance

Using Susterra® propanediol in PU dispersion coatings offers environmental benefits without sacrificing performance. In some cases, it can even improve flexibility, stain resistance, and chemical resistance properties. Various tests with Susterra®-based PUDs have also shown good scratch and abrasion resistance in direct-to-metal and wood applications.*

At CovationBio PDO, our innovative biotechnology continues to enable better-performing, better-for-the-planet products across a range of industries. Learn how Susterra® propanediol is redefining what's possible without petroleum at CovationBioPDO.com.

*Detailed test studies performed by Synpo, a certified, third-party lab.



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