

COVATIONBIO|PDO
susterra



Making powder coatings more planet-friendly

Plant-based and petroleum-free

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 epoxy-polyester powder coatings. 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.

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.



Harvest



Fermentation



Refining





Susterra® PDO for powder coatings provides:

- Excellent mechanical properties such as impact resistance and flexibility
- Simplified polyester synthesis
- Excellent flow and rheological behavior
- Enhances gloss development
- Improved dark yellowing

A simpler, more sustainable formulation

When used in epoxy-polyester hybrid powder coatings, Susterra® propanediol delivers excellent mechanical properties for indoor use on a range of appliances and white goods. And with the ability to replace both EG and hexanediol, Susterra® propanediol can make formulations easier in addition to more sustainable.

Boost renewable content in powder coatings

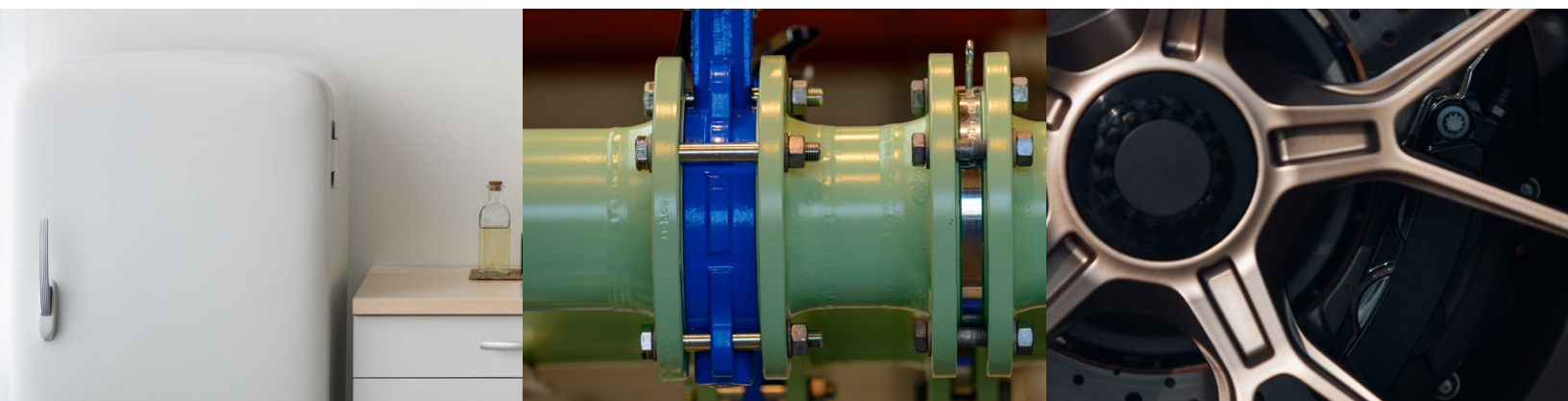
We're committed to helping companies achieve their short- and long-term goals for increasing renewable content in coatings formulations. Epoxy-polyester hybrid powder coatings produced with Susterra® propanediol enable a shift from petroleum-based glycols and diols to a renewable, bio-based alternative.

More possibilities for sustainable performance

Using Susterra® propanediol in powder coating formulations delivers identical properties as standard hybrid powder coatings and has even been shown to improve certain performance attributes over time.*

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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