

Meet government regulations, achieve sustainability goals with DuraBind technology

Enhance Sustainability

Urea formaldehyde works. So why would you consider an alternative binder? Consumers, retailers, builders, architects and manufacturers are demanding more transparency in the composition of the products and materials they use. And the companies who are responding by using more sustainable materials in their supply have the opportunity to gain competitive advantage.

Meet your corporate stewardship and sustainability goals

Start the journey towards a truly NAF-product

It's not about emission standards, it's about elimination. Companies can meet stakeholder expectations and comply with legislation by using renewable binders to replace formaldehyde in the production of a range of wood composite products.

Meet regulations. Products made using DuraBind binders have been used to meet global formaldehyde emission standards, including CARB Phase 2, European E0 and Japanese F-Star regulatory standards.

Qualify for LEED points. Building products produced with DuraBind technology are eligible for LEED points for improved indoor air quality.

Improve your manufacturing environment

Reduce regulatory supervision for handling compliance and reporting requirements for highly regulated chemicals. Using DuraBind technology means you can reduce the amount of emissions monitoring and ease concerns over quality assurance testing results.

Minimize cost of transition to a new ingredient. Handling DuraBind technology requires no new protective equipment, as it presents almost no industrial hygiene issues. It can also be used within your existing processes and with your current manufacturing equipment.

Reduce your carbon footprint

Use fewer non-renewable chemicals. For each kilogram of DuraBind engineered biopolymer used,, two kilograms of urea formaldehyde will be removed from the product, resulting in a 33% reduction of carbon footprint.

What is DuraBind?

DuraBind™ binders are a sustainable binder that enables manufacturers of wood composite products to decrease the amount of highly regulated chemicals, such as formaldehyde and MDI chemistries, in their formulations.

DuraBind technology delivers value across the supply chain

Using DuraBind binders to replace more heavily regulated formaldehyde-based resins means that:

- Manufacturers will reduce the complexity associated with manufacturing and safety regulations, while maintaining or even increasing line efficiencies – all without increasing costs
- Architects can spec in products that meet sustainability requirements
- Consumers and retailers access can access the sustainable products they're seeking

Key performance features

Comparison to UF, UmF, NAF alternatives

Mechanical Properties



- Internal Bond
- Modulus of Rupture
- Screw Pull

Emissions



- Formaldehyde-free
- Can be used to meet CARB standards
- LEED compliant

Processability



- Uses the same industrial equipment
- Easy to use
- Works within existing formulations
- Blend stability

All EcoSynthetix products, including **DuraBind technology**, offer a compelling value proposition with economic, performance and sustainability benefits.

Working with Us

The EcoSynthetix team is fully equipped to provide you with industry-specific technical support from initial testing to final implementation. We work closely with our customers to ensure our products seamlessly integrate into their existing formulations.

About EcoSynthetix

EcoSynthetix is a renewable chemicals company that has leveraged patented processes and renewable technologies to commercialize bio-materials for use in a number of end markets, including wood composites. Founded in 1996, our vision is to become one of the world's leading technology developers of bio-based materials.



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