

Boost sustainability, improve product performance and lower costs with DuraBind binders

Consumer preference for sustainable products and increasingly stringent regulatory demands have driven retailers, architects and manufacturers to seek out bio-based alternatives to the traditional binder systems which have been used for decades in the wood composites industry. And companies who show commitment to their sustainability and corporate stewardship goals are gaining a competitive advantage.

Sustainability, Economic and Performance Benefits

Start the journey towards a NAF-product

It's not about emission standards. It's about elimination. Using renewable binders to fully replace highly regulated chemicals in the production of particle board, MDF, veneers and laminates enables you to meet stakeholder expectations and comply with legislation.

Meet regulations. Wood composite products made with DuraBind engineered biopolymers can be 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 engineered biopolymers are eligible for LEED points for improved indoor air quality.

Improve manufacturing economics

Pricing predictability. Formaldehyde pricing is volatile and increasing over time. This unpredictability can be avoided by using sustainable binder products, which offer stable, predictable pricing.

Simplify operations

Use your existing manufacturing equipment. DuraBind is engineered to work with your existing industrial equipment. From storage tanks to pumps to application nozzles, all can continue to be used.

Reduce your carbon footprint

Enhance your manufacturing processes and ingredient lists. For each kilogram of DuraBind™ technology used, two kilograms of highly regulated chemical resin 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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