

TARGETED SOLUTIONS FOR REAL-LIFE CHALLENGES

CORAGUM[®] PA-15 performance additive

CORAGUM PA-15 performance additive is a **unique polymer blend** that improves **wet tack, green bond, and corrugator runnability**.

Because of the interaction with starch adhesives, CORAGUM PA-15 performance additive improves the bonding of high performance and recycled liners and improves runnability and machine speed on double and triple wall grades. CORAGUM PA-15 also works synergistically with waterproofing resins to improve water resistance in MRA/WPA grades. CORAGUM PA-15 performance additive can be dosed directly into the prepared adhesive so the addition rate can be controlled for specific grades of board, or it can be added directly to the adhesive formulation. It is compatible with resins as well as both conventional and high shear adhesives, and will not adversely affect viscosity or gel temperature.

Available in drums and totes. Tinted green for visual identification in adhesives.

FEATURES & BENEFITS

Increases corrugator speeds

- Improves green bond on high performance and speciality coated papers.
- Improves bonding and speed on double and triple wall grades.
- Reduces costs by increasing production rates.

Improves bonding

- Bonds difficult papers.
- Improves MRA/WPA results when used with wet strength resins.
- Reduces board warp and delamination.

APPLICATIONS

- Water resistant bonding
- High CMT and SCT
- High density paper
- Heavyweight paper
- Recycled paper
- Speciality coated paper



Ingredion™

SUCCESS STORY: CORAGUM® PA-15 PERFORMANCE ADDITIVE

1 challenge

One of our customers was having difficulty bonding double-wall board and was forced to operate at lower operating speeds, which overall increased their production costs.

2 solution

After reviewing their application and board quality, our team found that the customer's production rate was limited by the green bond, or wet tack of the adhesive. To address this issue, we recommended a trial with CORAGUM® PA-15 performance additive. **Which was added directly to the finished adhesive at levels of about 1% of total adhesive, the company's current resin doser.** This allowed CORAGUM® PA-15 performance additive to be incorporated at controlled levels — and only for the grades needed.

The amount added was therefore easily adjusted to meet our customer's performance needs while minimising cost. As a result, the operators at the corrugating company were able to increase their machine speed by an impressive 57%; from 105-165mpm. The cost savings attributed to the increase in production rate more than offset the cost of the additive.

3 results

To demonstrate the potential savings that can be made by using CORAGUM® PA-15 performance additive, a comparison of annual operating costs for two grades of board that benefited from CORAGUM® PA-15, based on production rate increases at two different customers is provided in the table below.

	CUSTOMER A	CUSTOMER B
Adhesive cost per year (original formula)	\$21,125	\$110,600
Formula plus CORAGUM PA-15 performance additive	\$23,175	\$135,000
Original operating speed	105 mpm	500 fpm
New operating speed	165 mpm	650 fpm
Overhead/variable cost per hour estimate	\$500	\$500
Total Cost (original adhesive formula)	\$107,300	\$553,000
Total Cost (formula plus CORAGUM PA-15 performance additive)	\$80,040	\$475,000
Net savings for grade	\$27,260 (25%)	\$77,000 (14%)

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Delivering solutions.™

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