

TARGETED SOLUTIONS FOR REAL-LIFE CHALLENGES

# CORAGUM<sup>®</sup> PR-20 performance resin



CORAGUM PR-20 performance resin is formulated to optimise **green bond and water resistance** on difficult to bond papers and high speed processing.

CORAGUM PR-20 performance resin maximises the achievable wet strength of high-density, heavyweight, and speciality coated papers for the best performance of MRA/WPA grades. CORAGUM PR-20 can be dosed directly into the prepared adhesive, so addition can be controlled for specific grades of board. It can also be added into the adhesive mixer to be used on all grades of board and is readily compatible with conventional and high shear adhesives. CORAGUM PR-20 will not impact the viscosity or gel temperature of the adhesive.

*Available in drums and totes. Tinted red for visual identification in adhesives.*

## FEATURES & BENEFITS

### Improves bond and wet strength

- Maximises water resistance of difficult to bond papers.
- Improves bonding and speed on double and triple wall board.
- Enables bonding of speciality coated and wax replacement papers.

### Improves machine speed

- Improves green bond.
- Increases machine speeds.
- Reduces board warp and delamination.

## APPLICATIONS

- High speed processing
- Water resistant bonding
- High CMT & SCT
- High density paper
- Specialty coated paper
- Recycled paper



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## SUCCESS STORY: CORAGUM™ PR-20 PERFORMANCE RESIN

### 1 challenge

A customer was having difficulty bonding speciality coated wax alternative papers. The coating on the papers was blocking the adhesive from bonding to the papers themselves. The standard adhesives they tried created only a surface bond, which produced weaker dry pins and would not provide good wet pin results even with the maximum resin dosage.

### 2 solution

Our team replaced the customer's current wet strength resin with CORAGUM PR-20 performance resin. Its unique chemistry improved adhesive penetration into the speciality coatings, not only strengthened the physical bond but also enabled water resistant bonding. In addition, CORAGUM PR-20 improved the adhesive rheology to achieve maximum adhesive performance at minimum

### 3 results

CORAGUM PR-20 performance resin was added directly to the existing resin doser at various levels to determine the best performance in the machine. Bonding improved immediately with wet pins increasing 70% over straight pearl and resin. The wet pins also showed 100% fibre tear, demonstrating that the adhesive was performing at peak efficiency. Dry pin values also increased by 30% and as a result, the customer was able to reduce waste. Because CORAGUM PR-20 performance resin improved the rheology of the adhesive, the customer was able to run their corrugator at higher machine speeds without production issues. As a result, the customer was not only able to offer this high-value board grade to customers, but they were able to lower their overall production cost for this product line and other high

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