



Performance Resins for Maximum Bonding and Productivity

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New Line of Performance Resins

- Maximize Water Resistance
- Maximize Production Speed
- Minimize Application Cost
 - Lower Waste
 - Optimize Consumption
 - Minimize Additional Water





Coragum™ Wet Strength Resin

- High Reactive Solids - Lower Application Needed
 - Improves Dry and Wet Pins
- Environmentally Friendly
 - Low VOC and Formaldehyde
- Three Grades Available
 - **WP 40** – MRA applications
 - **WP 50** – Covers Most Grades and Water Resistant Levels
 - **WP 55** – Heavy Weight and High WRA Grades





Water/Moisture Resistance

- Amount of Dry Pin Strength Retained After 24 Hour Soak
 - Vapor resistance – 1-2%
 - MRA Moisture Resistance – 3-6%
 - WRA Water Resistance – 5-10%
- Wet Shear – Water Penetration Rate under Stress Load
- Dosage, Resin Grade, Adhesive Solids and Application Level





CASCO



Coragum™ PR 20 Performance Resin

- Offers full Water Resistance and Bond Enhancement
 - Increases Dry Pins
 - Improves Green Bond and Machine Speed
 - Improves Bonding on Difficult Papers Including Wax Alternatives
 - Improves Adhesive Performance In Thin Film Application





Coragum™ PR-20 Performance Resin Delivers Results

- Bonds Wax Replacement Papers With Improved Dry and Wet Pins
 - Wet Pins increased by 70% with 100% Fiber Tear
- Improves Bonds on Coated Papers
 - Faster Machine Speeds
 - Higher Dry and Wet Pins
- Improves MRA Performance in Low Solids Thin Film Applications





Coragum™ PA-15 Performance Additive

- Acts as a Resin Free Liquid Additive
 - Improves Bonding and Dry Pins
 - Improves Green Bond and Machine Speeds
- Improves Rheological Properties of the Adhesive to Maximize Performance
 - Increases Production Speed of High Performance Liners by 20%
 - Improves Glue-line Profile, Allowing Lower Gap Settings
 - Improves Pin Adhesion and Fiber Tear, Reducing Waste





Coragum™ PT Performance Additive

- Specifically Formulated for Heavy Weight and Difficult to Bond Papers
 - Penetrants typically help wet out dense heavyweight papers but do so at the expense of bond strength
 - Penetrants have also caused channeling in the adhesives for water to break down water resistant bonding
- Coragum PT is specially blended to improve paper penetration without chemically weakening the surface tension of the adhesive or creating channels for water

	Control	Coragum PT	Penetrant "X"
Dry Pins	56	60	43
Wet Pins	1.5	3.0	1.2





- 24-hr Customer Service Availability
- Adhesive and Equipment Analyses and Audits
- Machine Process Audits
- Starch Training Seminars
- Lab Analyses
- Digital Imaging Analyses
 - All Available Options Through Your Technical Sales Representative

