

# How to Get Seamless Yankee Coating Results

Your Yankee cylinder is critical to your success. You need a coating that delivers these three performance results:

**DOCTORABILITY**

**EDGE CONTROL**

**COATING UNIFORMITY**

But inconsistent operating conditions challenge your Yankee coating reliability.

#### **WATER**

Changes in pH, conductivity and dissolved solids



#### **FURNISH**

Grade/furnish mix changes impact fines, hemicellulose, and basis weight

#### **MOISTURE**

Cross-direction variability, felt plugging, affects papermaking speed



#### **TEMPERATURE**

Shifting drying requirements

**NOW YOU CAN MANAGE THE CONSTANT CHANGE WITH TOTAL CONFIDENCE**

**Tapestry**<sup>SM</sup>  
Yankee Coating Solutions

Solenis has the expertise to deliver reliable Yankee coating.



#### **PROVEN CHEMISTRIES**

Best-in-class technology in wide use across Yankee coating segments

#### **LEADING INNOVATION CAPABILITIES**

State-of-the-art research facilities across the globe; tissue making simulation tools; a track record of introducing meaningful solutions to the market

#### **IN-DEPTH EXPERTISE**

Application and field experts adept at adjusting adhesive/release/modifier ratios to optimize coating performance

**BOOST REVENUE,  
INCREASE PROFITABILITY  
& CONTROL COSTS**

Contact a Solenis Tapestry<sup>SM</sup> Yankee Coating Solutions expert today:

[solenis.com/tapestry](http://solenis.com/tapestry)

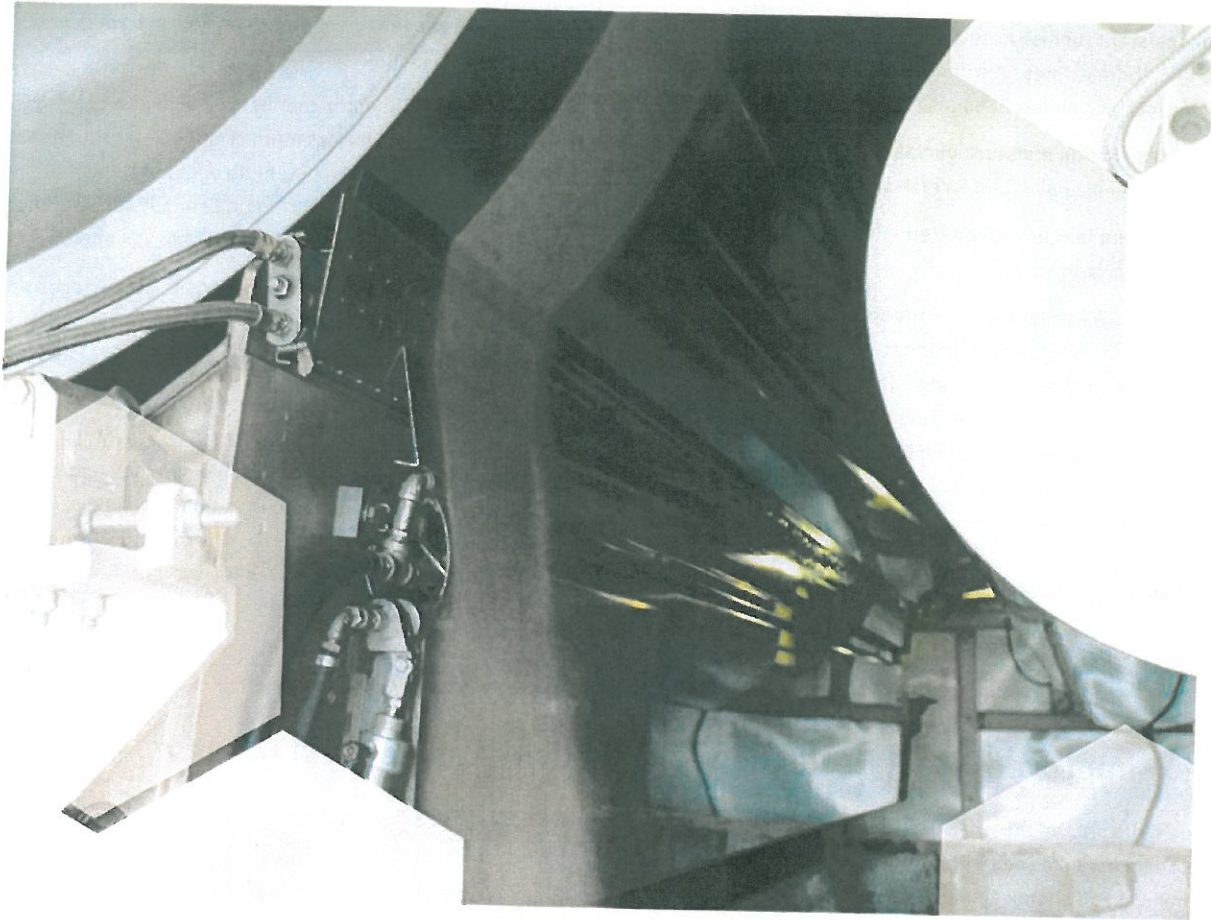
- Enhanced asset protection and chatter prevention
- Better runnability with fewer blade changes and longer intervals between cylinder polishes
- Improved creping quality enhances final product softness, strength and absorbency

 **SOLENIS**

# TAPESTRY<sup>SM</sup>

## YANKEE COATING SOLUTIONS

A fully integrated set of capabilities to optimize Yankee coating reliability



Tissue makers have to face consumer demands every day — demands for softer, stronger and more absorbent products. The Yankee cylinder is critical to meeting these demands, yet difficulties with Yankee operation can affect manufacturing productivity, product quality and, in some cases, asset life. Tapestry Yankee coating solutions from Solenis offer a best-in-class toolbox of capabilities that enable tissue and towel manufacturers to overcome the challenges and complexities in developing a robust Yankee coating. With a rich history of tissue machine expertise, Solenis is the chosen base coating vendor for most structured paper and LDC development assets.

## The Widest Array of Technologies. The Deepest Real-world Experience.

A reliable Yankee coating is essential for efficient and profitable operation of a tissue machine. When it's working optimally, the coating promotes adhesion of the papermaking web to the Yankee cylinder, shorter drying times and superior doctorability. Inconsistent day-to-day operating conditions can lead to issues with Yankee coating performance — these are most often caused by:

- **Changing water conditions** related to shifts in pH, conductivity driven by water closure, and dissolved solids.
- **Inconsistent furnish** resulting from variable levels of hemicellulose, fines, inorganic ions, and basis weight driven by grade/furnish mix changes.
- **Cross-direction moisture variability**, felt plugging, papermaking speed, and furnish processing changes.
- **Fluctuating temperatures** stemming from inconstant drying requirements.

Tapestry<sup>SM</sup> Yankee coating solutions delivers a comprehensive program for tissue makers looking to bring stability and consistency to the Yankee cylinder. Think of Tapestry as a toolbox of capabilities that enable the development of a consistently reliable coating. The toolbox includes a family of industry-leading technologies, a team of applications and field experts with deep experience in optimizing Yankee coating properties, and a robust R&D organization that constantly advances the leading edge of tissue making science.



Tapestry Yankee coating solutions can address your most pressing needs, including:

- **Doctorability.** Tapestry chemistries deliver a coating with the right rheology for optimum creping — a coating that remains stable and consistent throughout the life of the creping blade and quickly reestablishes itself after the blade changes. It also absorbs potential blade vibrations.
- **Edge control.** The right coating leads to clean edges on the Yankee cylinder, which reduces sheet breaks and delivers predictable creping quality.
- **Coating uniformity.** Excessive buildup or streaks can occur on a Yankee cylinder with some types of coatings. Streaks can cause differences in the profile of adhesion across the width of the dryer, resulting in lumps or wrinkles in the finished roll of paper. A more uniform coating, improves the operational stability of the Yankee system.

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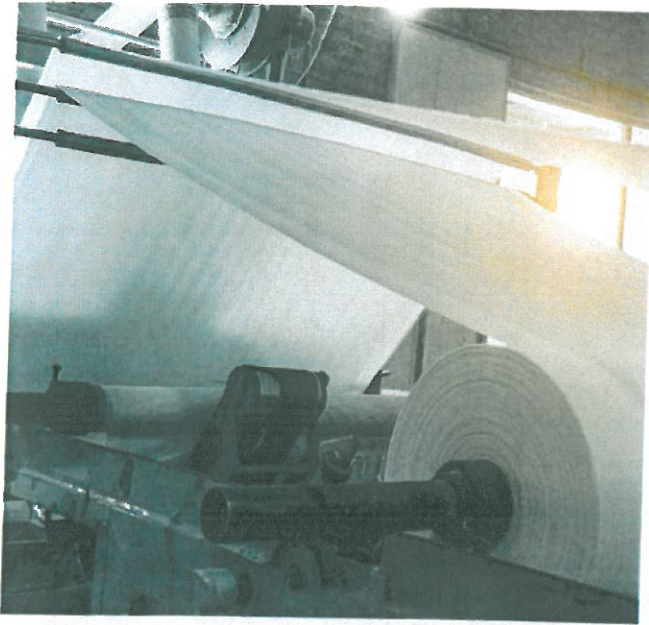
## Enjoy Improved Asset Protection, Productivity and Product Quality

Tissue mills around the world trust Solenis to optimize and develop their Yankee coating. Our experts understand the mechanical and chemical intricacies of the Yankee operation, have access to the broadest family of technologies, and are backed by researchers focused on innovating the tissue making process. We can help you develop a Yankee coating program that can achieve a number of key benefits, including:

- Improved asset protection and chatter prevention
- Enhanced runnability with fewer blade changes and longer intervals between cylinder polishes/grinds
- Improved creping quality that enhances final product softness, strength, and absorbency

As a result of using Tapestry Yankee coating solutions, you can accelerate revenue growth, increase production tonnage and improve profitability.





## Best-in-Class Products and People

Optimizing the performance of a Yankee system can be a complex problem. It takes a team of tissue making professionals who combine decades of real-world experience with a true collaborative approach to identify a mill's unique Yankee challenges and then overcome them. With Tapestry Yankee coating solutions from Solenis, that's exactly what you get. The Tapestry program brings together everything a mill needs to enhance coating performance.

## Advanced Chemistries and Technologies

Tapestry Yankee coating solutions include the most advanced chemistries on the market, designed specifically for tissue makers striving to optimize Yankee performance. These products include:

**Creping Adhesive Technology** – New patented creping adhesives open up the operating window on the machine by controlling adhesion between the tissue and the Yankee cylinder under variable operating conditions, including the extremes of high or low moisture and high temperatures. This allows for improved machine efficiencies and reduced energy consumption on any Yankee surface.

**Coating Modifier Technology** – Solenis modifiers are highly adaptive technologies that alter the functional characteristics of adhesion in response to changing Yankee conditions, helping to control rewettability, coating development, rheology, and uniformity.

**Release Technology** – This technology provides you with a consistent and uniform coating film to aid in the release of the sheet from the Yankee cylinder. New multifunctional release agents from Solenis change the technology curve to add additional sheet properties, such as improved softness or increased absorbency.

## Dedicated Applications and Field Experts

A critical component of Tapestry Yankee coating solutions, Solenis applications and field experts have the knowledge and experience to develop custom coating packages that are optimized for a given machine. They can:

- Analyze crepe process and Yankee performance data
- Model how process variable changes affect expected results
- Test proposed coating programs in customer applications laboratories and pilot plants
- Monitor Yankee doctor vibration and diagnose root causes of high vibration, poor quality or reduced production rate



## R&D Expertise and Investment in Innovation

Solenis is a research-driven organization with a major focus on innovation. Our 250 R&D scientists, many of whom have advanced degrees, work in state-of-the-art facilities with a singular focus — to develop new technologies that help our customers succeed. Our scientists have unmatched expertise in:

- Polymer science, surface and colloid chemistry, and organic chemistry
- Analytical chemistry and process modeling
- Yankee coating performance and simulation with access to proprietary tools, such as the adhesion release tester, Yankee dryer model, and crepe simulator

## More Information

To learn more, contact your technical sales representative or visit us online.



# Solenis

## Strong Bonds. Trusted Solutions.

Solenis supplies specialty chemicals for water-intensive industries, including the pulp and paper, oil and gas, chemical processing, mining, biorefining and power markets. Whether you want to increase production, develop new products, reduce costs or simply do more with less, we can help. With our innovative technologies, passionate people and unrivaled experience, Solenis is ready to deliver the solutions you need.

To learn more, contact your technical sales representative or visit us online.

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## TAPESTRY<sup>SM</sup> YANKEE COATING SOLUTIONS

Tapestry<sup>SM</sup> Yankee Coating Solutions from Solenis is a toolbox of capabilities that enable tissue makers to develop a consistently reliable Yankee coating. The toolbox includes a family of industry-leading technologies, a team of applications and field experts with deep experience in optimizing Yankee coating properties, and a robust R&D organization that constantly advances the leading edge of tissue making science. When tissue mills use Tapestry to optimize their Yankee coating, they can overcome operating condition challenges and achieve a number of key benefits, including:

- Improved asset protection and chatter prevention
- Enhanced runnability with fewer blade changes and longer intervals between cylinder polishes/grinds
- Improved creping quality that enhances final product softness, strength and absorbency

A reliable Yankee coating can also impact your bottom line by boosting revenue, improving mill profitability and controlling costs.

### Tapestry Technologies

Tapestry Yankee Coating Solutions include the most advanced chemistries on the market, designed specifically for tissue makers striving to optimize Yankee performance. These products include:

**Creping Adhesive Technology** – New patented creping adhesives open up the operating window on the machine by controlling adhesion between the tissue and the Yankee cylinder under variable operating conditions, including the extremes of high or low moisture and high temperatures. This allows for improved machine efficiencies and reduced energy consumption on any Yankee surface.

**Coating Modifier Technology** – Solenis coating modifiers are highly adaptive technologies that alter the functional characteristics of adhesion in response to changing Yankee conditions, helping to control rewettability, coating development, rheology and uniformity. Key benefits include controlled adhesion, bulk/caliper improvements, increased stretch and coating uniformity.

**Release Aid Technology** – This technology provides you with a consistent and uniform coating film to aid in the release of the sheet from the Yankee cylinder. New multifunctional release aids from Solenis change the technology curve to add additional sheet properties, such as improved softness or increased absorbency. Benefits include increased doctor blade life, control of coating buildup and Yankee cylinder edge control.

### How It Works

A reliable Yankee coating is essential for efficient and profitable operation of a tissue machine, yet many mills struggle to achieve and maintain consistent performance due to inconsistencies in temperature, moisture, and/or other operating condition challenges. Solenis Tapestry Yankee Coating Solutions offer a best-in-class toolbox of capabilities that enable development of a consistently reliable coating. Attributes of a Solenis Yankee coating include:

- **Doctorability.** Tapestry chemistries deliver a coating with the right rheology for optimum creping — a coating that remains stable and consistent throughout the life of the creping blade and quickly reestablishes itself after the blade changes. It also absorbs potential blade vibrations.
- **Edge control.** The right coating leads to clean edges on the Yankee cylinder, which reduces sheet breaks and delivers predictable creping quality.

- **Coating uniformity.** Excessive buildup or streaks can occur on a Yankee cylinder with some types of coatings. Streaks can cause differences in the profile of adhesion across the width of the dryer, resulting in lumps or wrinkles in the finished roll of paper. Tapestry Yankee Coating Solutions produce a more uniform coating, which improves the operational stability of the Yankee system.

## More Information

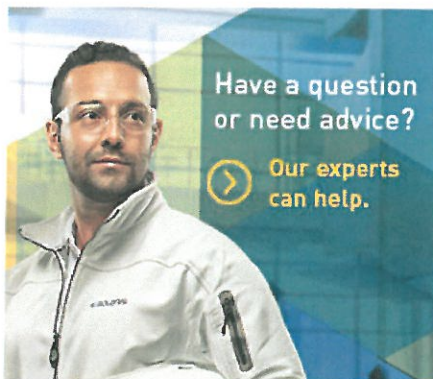
If you have a question or would like to know more about our Tapestry<sup>SM</sup> Yankee Coating Solutions, please complete and submit the form below.

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Last Name*
Company
Select One <input type="checkbox"/>
Email Address*
Phone
Question/Comment*

\*Indicates required field

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(</en/ask-expert/>)

## RESOURCES

Tapestry<sup>SM</sup> Yankee Coating Solutions Infographic ([/index.php/download\\_file/view/1242/2737/](/index.php/download_file/view/1242/2737/))

([/index.php/download\\_file/view/1242/2737/](/index.php/download_file/view/1242/2737/))

Tapestry<sup>SM</sup> Yankee Coating Solutions Brochure

([/index.php/download\\_file/view/1240/2737/](/index.php/download_file/view/1240/2737/))

Case History: Improved Creping Quality ([/index.php/download\\_file/view/1247/2737/](/index.php/download_file/view/1247/2737/))

Case History: Improved Coating ([/index.php/download\\_file/view/1248/2737/](/index.php/download_file/view/1248/2737/))

Case History: Improved Productivity ([/index.php/download\\_file/view/1249/2737/](/index.php/download_file/view/1249/2737/))

Case History: Improved Doctor Blade Life ([/index.php/download\\_file/view/1250/2737/](/index.php/download_file/view/1250/2737/))

Case History: Improved Productivity ([/index.php/download\\_file/view/1251/2737/](/index.php/download_file/view/1251/2737/))

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Solenis is leading producer of specialty chemicals for water-intensive industrial operations. In addition to offering innovative chemical solutions—process aids, water technologies and functional additives—the company also offers an advanced suite of monitoring and control systems, all fully backed by expert insight and support.

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