



DuraSoft Creping Technology

DURABILITY, SOFTNESS AND PRODUCTIVITY

DuraSoft Creping Technology Delivers:

- ◆ Softer coating film characteristics compared to traditional crosslinking PAE products.
- ◆ Improved coating uniformity for improved creping efficiency.
- ◆ Good adhesion for the development of crepe structure and hand feel.
- ◆ Durable coating that withstands the rigors of moisture variation experienced by today's tissue and towel machines.

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Program Description

DuraSoft Creping Technology was developed to provide soft but durable Yankee coatings that have improved runnability characteristics compared to traditional crosslinking PAE adhesives. DuraSoft technology exemplifies a new generation of PAE adhesives that provide a wider operating window, reduced hard film build-up, and less edge deposits. These coating characteristics are more in demand with today's harsher Yankee operating conditions where higher speeds, lower moistures and higher temperatures are more normal than the exception.

When bundled with unique sensor and automation capabilities such as the Nalco Water Crepe Analysis Toolbox (NCAT) and Early Warning Chatter Detection (EWCD) technologies, DuraSoft technology provides a sustainable competitive advantage to end users. NCAT technology also allows tissue makers the capability to determine, specify, and document crepe frequency and crepe characteristics reproducibly for each grade. EWCD technology provides tissue makers the capability to monitor crepe blade vibrations continuously. By effectively utilizing this technology, conditions that lead to chatter can be avoided.

Technology Benefits

DuraSoft technology offers tissue makers the following benefits:

- Wider operating window of average creping moisture when compared to traditional crosslinking PAE adhesives.
- Uniform coating leading to improved blade life.
- Reduced edge deposits.
- Improved machine runnability from more uniform coating and reduction in chatter potential.
- Good adhesion that leads to uniform creping in the cross direction.
- Ability to support wet end chemistries without adverse effects on the Yankee coating.
- Faster rewet that reduces hard film build-up.
- An FDA compliant solution

DuraSoft technology can also be utilized with other modifying and release technologies. If run with a modifying release, high tissue softness can be obtained. High stretch grades may also be run when DuraSoft technology is coupled with an oil-based release. The DuraSoft adhesive also supports the use of functional chemistries added to the wet end of the machine. The use of softeners and temporary wet strength agents can decrease

adhesion and harden some Yankee adhesives, but DuraSoft technology works synergistically with these additives to maintain optimal machine performance.

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DuraSoft technology is recommended for tissue and towel machines having forming, pressing and drying configurations, including:

- Conventional creping - both dry and semi-wet.
- Crescent, TWF, SBR, and Fourdrinier formers.
- Single and double felt presses.
- Cast iron and metallized Yankees.
- Creping moistures between 3 and 7 percent.

DuraSoft technology is also recommended for both virgin and recycle fiber types. It can be used over a wider range of grades from value and economy all the way to super premium.

Contact Us

For more information about DuraSoft Creping Technology and its benefits for you, please contact your local Nalco Water Sales engineer or visit www.nalco.ecolab.com/program/durasoft-creping-technology.

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