

The ideal doctor for hard roll coatings

SkyTop delivers brilliant results

Roll covers enhance the efficiency of a paper machine. To gain the greatest possible benefit from roll covers, doctor blades have to be perfectly matched to the cover's properties. Voith Paper's SkyTop doctor blades offer a special product combination for hard roll coatings. The result: extended operational life and enhanced paper quality.



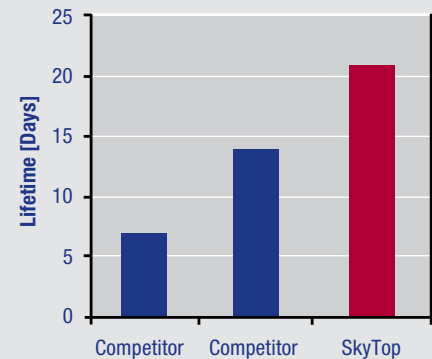
At Norske Skog Bruck in Austria, doctoring deposits in the third press were affecting the operating properties of the central press roll. The use of >>> SkyTop doctor blades over a longer period reduced doctoring deposits and extended blade life from 14 to 21 days.

In addition, the company was not satisfied with the original blade life in the fourth press take-off position. Because of extensive wear, the blades had to be replaced after seven days, resulting in more downtime. Installing SkyTop doctor blades tripled blade life to 21 days. SkyTop doctor blades are now being applied

SkyTop is tailored to the requirements of hard roll coatings.

>>> Information: SkyTop

SkyTop is a fiber composite made up of carbon fiber and duroplast matrix with finely distributed cleaning and polishing particles. This combination results in excellent cleaning and conditioning of the roll surface. The surface roughness and excellent sheet release properties of the roll coatings are maintained throughout the entire roll life.



Service life of SkyTop compared with competing blade products.

successfully in the third and fourth presses on the thermal-coated press roll covers.

The combination of SkyTop with a TerraGloss coating also produced outstanding results. After experiencing recurring problems in the calender section with lifetime and inadequate gloss standards, the customer applied a TerraGloss coating. The new installation allowed the default gloss factor of 60 to be maintained for far longer compared to the uncoated rolls. However, after a time, initial signs of milky deposits again reduced the gloss factors of the LWC paper.

Only after the conventional carbon blades were replaced with Voith SkyTop blades could the roll surface be kept clean and, consequently, the gloss values in the product maintained in the long term. These examples prove that proper, precisely tailored doctoring of the thermal roll coatings enhances the efficiency

of the paper machine. The coatings can only work to their full potential when the doctoring process is top-rate.

Reducing maintenance costs

Another considerable benefit of SkyTop is a decrease in downtime, resulting in a reduction in maintenance costs. A paper machine can be out of operation for up to 12 hours while a roll is being changed compared to only 30 minutes to replace a doctor. SkyTop increases roll lifetime by means of improved yet gentler cleaning of the thermal coated roll surfaces. In the case of the doctors used previously, the blade contact pressure had to be increased regularly to maintain cleaning performance at the same level. With SkyTop, this is no longer necessary. This means that coating and doctor blade are exposed to fewer stresses, and the lifetime of both components is extended.

The success of SkyTop demonstrates how important it is to tailor doctor blade and cover to one another. Particularly on demanding paper machine positions, a measurable added value can be achieved for the paper mill.

On Focus: SkyTop doctor blade

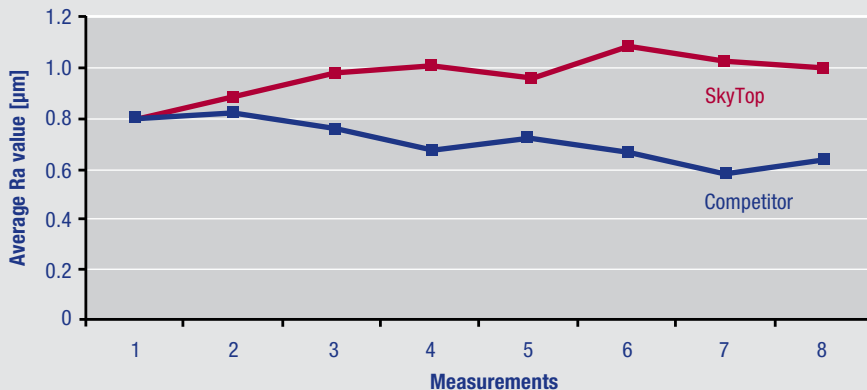
- ProRunnability ++++
- ProQuality +++
- ProSpeed +++

Section: press, calender
 Width: all
 Paper grade: all

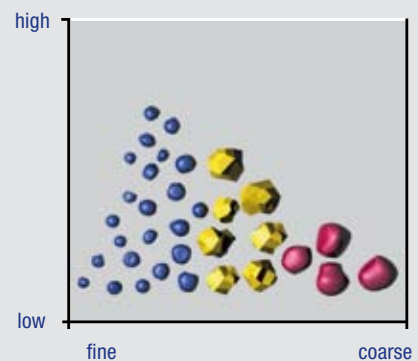
Contact



Ingo Schmid
 ingo.schmid@voith.com



SkyTop provides consistently high coating surface roughness over the entire operating life.



Filler particle sizes in cleaning and conditioning blades.