

# Press Release

## Durafix – the longer lasting dryer fabric treatment

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Heimbach – wherever paper is made.



Today paper machines are high-speed machines. They are designed to produce ever more paper at an ever faster rate. This puts the individual machine components under an extreme load, including the dryer fabrics in the drying section. The screens travel at a high speed over the drying cylinders and rolls. Unfavourable machine configurations or set-ups such as misaligned rolls, harsh push button control or rolls which are too smooth can make the dryer fabric oscillate and cause wear.

## **Wear – at various locations in the dryer fabric**

Heavy wear occurs on both the roll and the paper sides of the dryer fabric. Wear on the roll side is usually caused by corroded or contaminated rolls or cylinders. However, even stiff rolls and cylinders and other static elements of the dryer can cause wear. Wear on the paper side can arise due to the same root causes but can also occur due to abrasion by the paper web. The paper web, which runs straight, abrades the oscillating dryer fabric, this occurring particularly when producing highly filled or coated papers. This wear is most apparent at the seam, the weakest point of the dryer fabric, where the warp threads begin to abrade even after a short period. The reduced strength of the dryer fabric does not allow safe continued operation and an early change of the dryer fabric is unavoidable.

## **Better guiding, more grip**

Heimbach has developed a new product which achieves smoother running and longer dryer fabric life: Durafix. With an unfavourable machine configuration the increased grip of Durafix prevents the drying fabric from strong oscillation and therefore prevents abrasion by the paper web which is running straight. In addition, the improved adhesion between the dryer fabric and the drive roll ensures that there are no speed differences between the roll and the fabric.

## **Not only economic benefits**

Heimbach Durafix offers a real economic gain due to the extended life of the dryer fabric. Its' use will enable you to significantly reduce dryer fabric purchasing costs. Downtime due to changing the dryer fabrics is also reduced. A further advantage can come from a reduction in energy consumption. Durafix enables the dryer fabric to travel along through the machine without slippage. The drive energy is transferred from roller to roller, cylinder to cylinder without any loss. Therefore the machine requires less energy, a positive effect which also reduces your costs.

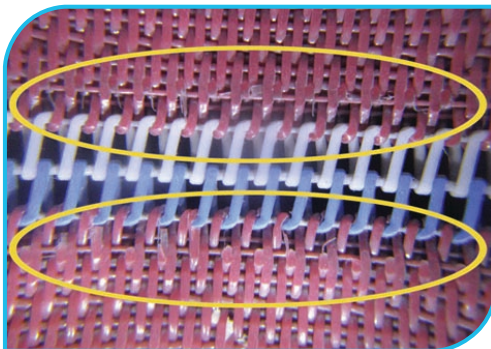


Image 1: Dryer fabric without Durafix - heavy wear at the seam

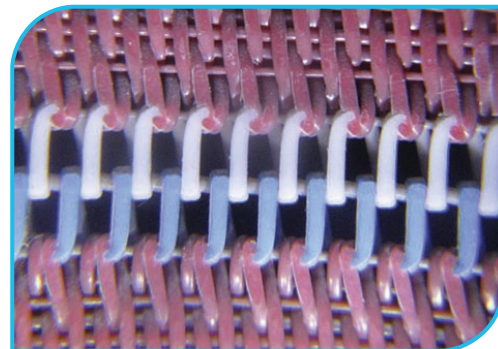


Image 2: Dryer fabric with Durafix

## **Proven in practice**

Durafix on dryer fabrics from Heimbach has already proven itself in practice many times. The two dryer fabric images clearly show the beneficial effect of this innovative Heimbach product. The application of Durafix reduces oscillations and therefore also wear which leads to an extended operating time. In some cases the dryer fabric only required changing after eight months instead of the usual three months.

## **Durafix – the ideal solution**

This practical example clearly illustrates the benefits of Heimbach Durafix. Heimbach has developed an ideal solution for highly abrasive positions and abrasive, highly filled paper where grip is a problem due to the oscillation of the dryer fabric and location. Such susceptible locations are particularly to be found following on-line coating or with off-line coating machines. The useful service life of the dryer fabric is significantly extended. The reduction of drive slippage also prevents speed fluctuations resulting in smoother running, less wear and the saving of valuable energy. Durafix enables you to make multiple savings and protect the environment.

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