



Technical Information
pretex[®] and **neobond[®]**

Unique papers for unique ideas!

Innovative products offer persuasive solutions for the graphic arts industry:

FiberMark Lahnstein

is a reknown manufacturer of high quality synthetic fibre papers, impregnated special papers and nonwovens.



pretex®

Communication is innovative, therefore normal solutions are not always the answer.

pretex® not only offers all the advantages of a high quality graphic arts paper, but is also the right choice for all those cases where a normal paper just isn't durable and strong enough.

► Impregnated special paper

pretex® is an impregnated special paper, very durable and hard-wearing. The basis for these properties are selected pulps and textile fibres (e.g. polyamid and polyester) combined with a special impregnation.

► Environmental compatibility

During the production, there are no substances used which could do harm to nature (organic solvents, PVC, formaldehyde, ODC-compounds). **pretex®** can be dumped without risk and is biodegradable. When burning, no harm is done to the environment and no combustable product is left.

► Certified Quality

The production of all **pretex®**-grades is subject to DIN ISO 9001 – assuring constant quality you can rely on.

neobond®

A material for every day use: **neobond®** is specially designed for all those uses where the strength and durability of the base material is most important. Although it has almost the same characteristics as **pretex®**, **neobond®**, depending on the application, is more robust.

► Durable synthetic fibre papers

neobond® is a high-quality, two-side coated paper specifically designed for applications in printing where there is a great deal of exposure to extreme conditions. Selected pulps, textile fibres (e. g. polyamide, polyester and viscose) and a special impregnation are the basis for these properties.

► Environmental compatibility

The environmental compatibility in production and disposal correspond to the specifications given for **pretex®**.

► Certified Quality

The production of all **neobond®**-grades is subject to DIN ISO 9001 – assuring constant quality you can rely on.

pretex®

pretex® is particularly versatile and offers an outstanding choice of properties.



► High tear-resistance

pretex® is very strong through its high tear-resistance.



► Good light fastness

pretex® contains pigment colours with no optical brighteners and still has good light fastness after many years.



► Mechanical wear and tear

pretex® withstands high mechanical wear and tear under both wet and dry conditions.



► High resistance to changes in temperature

Normally temperatures up to 100° C do not influence the special properties of pretex®, a short-term increase to 200° C only leads to a discoloration of the paper surface.

neobond®

neobond® has most of the properties pretex® offers as well:

neobond® has a good light fastness, is resistant to most organic solvents, resistant to ageing and changes in temperature. Moreover, because of its composition it provides additional benefits for special uses.



► Optimal resistance to ageing

pretex® is resistant to ageing (DIN 9706) and thus guarantees a high durability of your printed material.



► Resistance to organic solvents

pretex® is resistant against most organic solvents. We suggest that you make tests in each individual case. In direct contact with acids and tabloid caustic solutions, losses of strength or discoloration are possible.

The white pretex®-qualities are suitable for food contact.



► Tear resistance

neobond® stands because of its remarkably high tear strength.



► Dimensional stability

neobond® has an excellent dimensional stability, e.g. when exposed to changes in climate.



► Folding endurance

neobond® has a high double folding endurance, whether in wet or dry condition.



pretex®

► Suitable printing procedures

pretex® can successfully be printed by all conventional printing methods. The grain direction should be considered.

► Digital printing

Coated white pretex®-qualities are suitable for various digital printing procedures. The qualities 50.100, 53.120, 50.150 and 50.250 are certified for different XEIKON-machines. The appropriate script-files or technical datasheets can be downloaded from the XEIKON website or are available through **FiberMark Lahnstein**. White pretex®-qualities have been successfully tested for the Indigo-printing process.

► Copiers and laserprinters

Uncoated pretex® 30-qualities have been specially developed for the use in copiers and laserprinters. They can be used for single sheet feeding on almost all machine types. We will gladly advise you and share the experiences we have collected in this field.

► Printing inks

White pretex® 50-qualities can be printed with the normal printing inks for coated paper. Special inks are not required. For the coloured qualities we recommend the use of oxidative inks, if necessary with the addition of a drying agent. You should take care to make minimum use of damping in the machine.

neobond®

► Suitable printing procedures

neobond® – just like **pretex®** – can successfully be printed by all normal printing processes. The grain direction is not of primary importance.

► Continuous form printing

neobond® 61.150 EFD is a quality which is specially used for continuous form printing. But also the standard **neobond®**-qualities are suitable for this procedure. However, because of the special paper's elasticity, the tension should be reduced to avoid overstretching.

► Printing inks

We recommend oxidative and alkaliproof inks, if necessary with the addition of a drying agent. You should take care to make minimum use of damping in the machine.

If in doubt, samples of **neobond®** should be given to the ink-maker for recommendation.

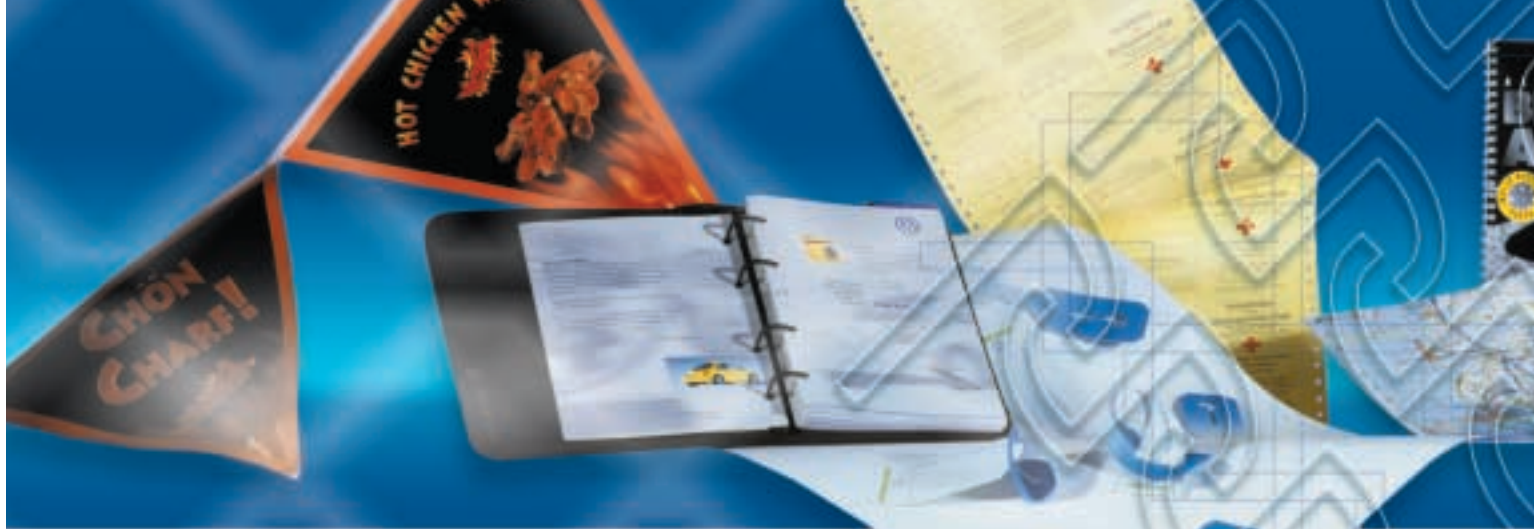
► Climatic conditions in the printing shop

For the climatic conditions in the printing shop you should observe the same recommendations as given for **pretex®**.

If in doubt, samples of **pretex®** should be given to the ink-maker for recommendation. For the printing of our uncoated **pretex®** 30-grades the use of LE-colours e.g. is recommended when the paper has to run through a laser printer after offset printing.

► Climatic conditions in the printing shop

You should pay attention to the right climatic conditions in the printing shop (20° C at approx. 50-60 % relative humidity) for all printing papers. We recommend to store the wrapped reams or rolls of **pretex®** for at least 24 hours in the printing shop in order to allow paper to adjust to the temperature. Please open the vapour proof wrapping only just before you start printing.



pretex®

Depending on its intended use **pretex®** can be varnished, folded, creased, drilled, sewn, embossed (e.g. blind- or hot film embossing) and glued. However, we recommend to adjust the glueing binder to the individual use.

pretex® can be perforated and punched on the common machines. Due to its textile fibres, the best results are achieved by round hole punching in preference to crown/star hole punching. When perforating the gripper margin, the width should be adapted to the higher resistance (compared to normal paper).

pretex® can be written upon with common writing utensils.

For example for:

- **Instructions**
(manuals, handbooks)
- **Educational and other charts**
- **Plans for outdoor use**
- **Flags**
- **Posters**
- **Bibs**
- **Book bindings**
- **Maps**
- **Brochures and covers**



neobond®

This durable and hard-wearing synthetic fibre paper is the ideal printing substrate for everything that has to last long and withstand a lot of use. The special combination of properties makes **neobond®** suitable for various applications.

neobond® can be furnished with security features (e.g. watermark, fluorescent fibres/ security printing with fluorescent pigments). This modified version of **neobond®** is used in documents for both Germany and the export market.

neobond® can be written upon with common writing utensils.

For example for:

- ▶ **Index sheets**
- ▶ **Durable documents**
(car registration papers, driving licences, certificates)
- ▶ **Identifications cards**
(vaccination and emergency certificates, work passes, membership cards)
- ▶ **Facsimile**
- ▶ **Educational and other charts**
- ▶ **Luggage tags**
- ▶ **Tickets**

If this gives you an idea:

We will gladly advise for special uses!

You want further information or samples for testing?

Call us – we will gladly answer your demands!



The information contained in this brochure is based on our knowledge and practical experience. Due to the variety of possible influences during processing and use we recommend that the customers carry out own trials to test our products. Changes due to technical progress or internal development are reserved. A legally binding guarantee of certain properties cannot be derived from the statements in this brochure.

pretex®


pretex® is available in sheets or rolls.

- Standard size:**
 86 x 122 cm
 61 x 86 cm
 43 x 61 cm etc.
 other sizes on demand
 (e. g. 70 x 100 cm)

- Maximum roll width:**
 white: 255 cm
 coloured: 122 cm

Other weights and colours on demand.

- Colours:**
 white, blue, green, yellow, red

	50. two-side coated	50. two-side coated  *	53.120 "manual" two-side coated	30. "copy+laser" uncoated
90 g/m ²				✓
100 g/m ²	✓			
120 g/m ²	✓		✓	✓
150 g/m ²	✓	✓		
200 g/m ²	✓			
250 g/m ²	✓			
300 g/m ²	✓			

*Colour shades are printed and vary slightly to actual colours.

neobond®

neobond® is available in sheets or rolls.

➔ **Standard sizes:**

86 x 122 cm
61 x 86 cm
43 x 61 cm etc.
other sizes on demand
(e. g. 70 x 100 cm)


➔ **Maximum roll width:**

122 cm

Other weights and colours on demand.

➔ **Colours:**

white, blue, green,
yellow, chamois, orange,
pink, grey

	Standard two-side coated	Standard two-side coated 	"super" two-side coated	"EFD" two-side coated for continuous form printing
100 g/m ²	✓			
150 g/m ²	✓			✓
200 g/m ²	✓	✓	✓	
220 g/m ²	✓			

*Colour shades are printed and vary slightly to actual colours.

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