



Unbeatable adhesive technology expertise

— OBERFLÄCHEN KLEBSTOFFE



Pressenote über die Zusammenarbeit mit Hilti und die Neuentwicklung des „Hot Coating“
Beitragende: Dr. Achim Hilsemer, Leiter Produkt und Wolfgang Frennkel, Leiter Vertrieb (2017)

Geballte Kompetenz der Klebstofftechnik

In den vergangenen Jahren hat Kleiberit unter anderem mit seiner „Hot Coating“-Technologie einen bemerkenswerten Aufschwung erlebt. Sängster Erfolg der bodenfesten Klebstoff- und Beschichtungsspezialisten ist die Kooperation mit dem Holzwerkstoffhersteller Pfleiderer, der derzeit eine eigene Lackieranlage auf Basis der Kleiberit-Technologie baut. Im Vorfeld der Ligna sprach die HK mit Kleiberit-Geschäftsführer Dr. Achim Hilsemer und seinen Mitarbeitern über die Ansprüche des Marktes, Identifizierungsmerkmale in der Beschichtungstechnologie und die Neuheiten, die Kleiberit auf der Weltleitmesse zeigen will.

With the kind approval of DRW-Verlag



Fotos: Balz, Kleiberit

Pleased about the partnership with Pfeleiderer and the further development of the HotCoating process
Dr. Achim Hübener, Jens Fandrey and Wolfgang Hormuth from Kleiberit (from left to right).

Unbeatable adhesive technology expertise

Kleiberit, the adhesive and coating specialist from southwest Germany, has seen a remarkable upward swing these past years, not only but also on account of its HotCoating® technology. The company's most recent milestone is a cooperation with wood-based panels manufacturer Pfeleiderer, which is presently setting up a coating line based on Kleiberit technology. In the run-up to LIGNA, the world's leading trade fair for the wood industry, HK spoke with Kleiberit's CEO Dr. Achim Hübener and his staff about market requirements, USPs in coating technology, and the new developments that Kleiberit will be showing at the fair.



By Stefan Bolz

The next chapter in the HotCoating® technology story is currently being written at Pfeleiderer in Leutkirch, south Germany. In close cooperation with Kleiberit, the company is setting up a new coating line to the value of around 12 million Euros, that will be capable of coating wood composite products and compact boards up to a width of 2,100 mm (see also: HK report 2/17). Pfeleiderer is convinced that the state-of-the-art plant, due to begin operation at the beginning of 2018, will ring in a new era of surface [coating] technology. The two companies have entered into an 'exclusive cooperation' that will enable Pfeleiderer to offer a full range of functional surfaces in the future.

"All the major board manufacturers are contemplating how to finish surfaces themselves," comments Dr. Achim Hübener. Pfeleiderer approached Kleiberit during their search for the right finishing technology, but the bar was set high. The new coating system had to be able to work reliably in the desired widths and achieve the same excellent surface quality both in high-gloss and super matt, from day one of production. Absolutely reliable colour reproduction, anti-fingerprint properties and high resistance against glossing for the super matt lacquers were further requirements.

None of the above specifications gave the Kleiberit engineers any cause for sleepless nights. "We relish challenges such as these, as we are constantly working on improving our coating systems anyway," Dr. Hübener reveals. It goes without saying that the company always tries to find the best solution for the respective market requirements in close cooperation with the customer. Furniture makers in cold Scandinavia, for instance, require other material properties than board manufacturers in Turkey or humid Brazil. "We had to make quite a few adjustments to meet Pfeleiderer's needs, but it has resulted in a truly sensational product," Dr. Hübener is pleased to report.

Kleiberit not only convinced Pfeleiderer with its technical expertise, but additionally tipped the scales in its favour with the HotCoating® line already in operation with the new technology at its subsidiary dekoraPUR in Barsinghausen, near Hanover. "Pfeleiderer can therefore already have its coated boards finished at dekoraPUR and offer this service to its customers," explains Dr. Achim Hübener. Pfeleiderer first presented the new technology at its own Innovation Days event back in February, and will be showing it again in May at the Interzum trade fair, giving Marketing and Sales the benefit of having sufficient time to introduce it to clients. Also, the products can now already be delivered in exactly the same quality as the plant in Leutkirch will later be producing.

With orders already on the books, the plant will be in full operation from day one, which will certainly boost profitability. "The fact that our coating line at dekoraPUR is not merely for demonstration purposes but also works as a real production facility in two-shift operation is a unique feature that our competitors are unable to offer," Kleiberit's CEO is proud to emphasize.

The recent collaboration with major market player Pfeleiderer has had an undeniable impact on Kleiberit. The coating line at dekoraPUR



in Barsinghausen had to be adapted for use with Pfeiderer's boards. And, with Kleiberit facing strong growth as a result of this cooperation and various successful projects in other markets, the production facility for polyurethane adhesives in Weingarten is now due to be expanded.

Approval procedures and coordination with the local authorities are currently underway, and Dr. Achim Hübener is confident that construction can begin soon. Kleiberit will be investing several tens of million Euros in this project and significantly increasing its workforce. Annual production of PUR adhesives is due to grow by around 35%; the premises are designed so as to accommodate further production expansions.

HotCoating from Kleiberit offers various application possibilities. Pfeiderer is currently working on a new lacquer technology based on this process.

"Generally, we see polyurethane-based adhesives as a future technology that will continue to replace other practices such as the use of solvent-based adhesives. There is still so much potential, also and especially in other industries such as vehicle construction," Hübener is convinced.

The LIGNA fair in Hanover this May will be the ideal showcase for presenting the additional potential of PUR technology. "This is our most important trade fair, so the tension is understandably high in the run-up," says Jens Fandrey, Technical Director of HotCoating®, with a smile. Kleiberit has ambitious plans for its new, 540 sqm stand, now in Hall 15. As LIGNA is basically a trade fair for the machinery sector, Kleiberit will be presenting HotCoating® lines with a variety of different applications - "although we are not strictly a machine manufacturer, but a maker of adhesives and coatings," Fandrey emphasises. But experience shows that live line production presentations attract trade fair visitors. And those interested in





the fine details can visit the production line at dekoraPUR in nearby Barsinghausen. As in 2015, Kleiberit will again be providing at least one bus shuttle to dekoraPUR every day during the fair, Fandrey confirms. Kleiberit will be demonstrating 'roll-to-roll' coating methods as well as board product coating at LIGNA. "We will be showing a digital printing line

that can print inline and subsequently 'hot coat' in a single pass. That is an absolute novelty," promises Jens Fandrey. Since the last LIGNA, Kleiberit has advanced the roll-to-roll method together with machine manufacturer Huser, a specialist in veneer, paper and film processing equipment, based in Herbolzheim, southwest Germany. Two years ago, the size

of the printing unit was still an issue. Today, the printer produces better quality and is significantly smaller, thus fitting better into the whole system. "With the new method we can even emboss, which is a big step for paper manufacturers," Fandrey continues. This opens up completely new possibilities for profile wrapping and for the papers and films used

Competence PUR – Highest quality standards, decades of experience and innovative solutions

Intensive research, competent development and customer oriented application technology are the foundation for the enormous international success of KLEIBERIT adhesive systems in a variety of applications. Customers worldwide rely on the know-how resulting from decades of experience in the area of PUR adhesives and their applications.

Reactive PUR hotmelt adhesives from KLEIBERIT, made in Germany, have gained a leading position in the global market – convincing the window profile wrapping as well as the furniture, automotive, filter, textile, and paper industries and have made KLEIBERIT a global trendsetter in all matters concerning bonding.

Customers around the world appreciate the large range of services:

- Application trainings in the KLEIBERIT Technical Center or directly on-site
- Support directly on customer lines to improve quality
- Pre-testing on their own test line

Long-term testing und quality testing of customer samples in their own test lab.





At LIGNA, Kleiberit will present its competence in adhesive and coating technologies.

achieve their extremely low gloss level by physical means rather than from chemical matting agents. "When it comes to glossing, physical methods have clear benefits," says Jens Fandrey.

Super matt, high-gloss, HotCoating surfaces, and adhesives: "We will be showing our full PUR expertise," announces Wolfgang Hormuth, Division Manager Industrial Adhesives for Wood, Windows and Construction. Kleiberit sees itself as a global innovation driver in the field of PUR hotmelts. The technology behind the development of HotCoating® offers many more highly interesting possibilities. One such example, as Wolfgang Hormuth points out, is adhesion-resistance to plasticisers that are found in LVTs. Kleiberit has solved this problem and engineered new adhesives that can bond all kinds of materials, such as LVT decors on mineral, PVC or HDF boards and products. The engineers in Weingarten are already working intensively on the next stage of development. "We are firmly convinced that we will gradually convert PUR compounds to monomer-reduced micro-emission (ME) products," says Hormuth, with a view to the ecological aspect. Kleiberit already supplies not only samples, but also production quantities, and will continue along that line.

At LIGNA, the firm will be presenting its recognised expertise in PUR hotmelt technology with a variety of solutions for surface lamination and profile wrapping and, above all, with convincing live endurance tests to demonstrate the water-resistance of edge banding.

for surface lamination. A 400 mm wide HotCoating® line will be on show at LIGNA - although Kleiberit and Huser have long since begun developing a 1.6 metre wide version.

Printed and coated papers in this broad width open up a host of new applications for manufacturers. The furniture industry wants wide papers for laminating surfaces and coating edges in one swoop. There is also significant demand from the flooring industry: in view of the current hype for luxury vinyl tiles (LVT), flooring manufacturers are

calling for up to 2.10 metre-wide paper, with a very abrasion-proof coating, a super matt finish, and that can be reactivated in a short-cycle press. "Such papers give floors a 'soft touch' finish that also has excellent acoustic properties and can be embossed with deep structures. And manufacturers can use a large number of existing short-cycle presses for the purpose," Jens Fandrey lists the additional benefits.

Kleiberit will be showing super matt surfaces on boards and 'roll-to-roll' that





KLEIBERIT®

ADHESIVES • COATINGS

Competence **PUR**

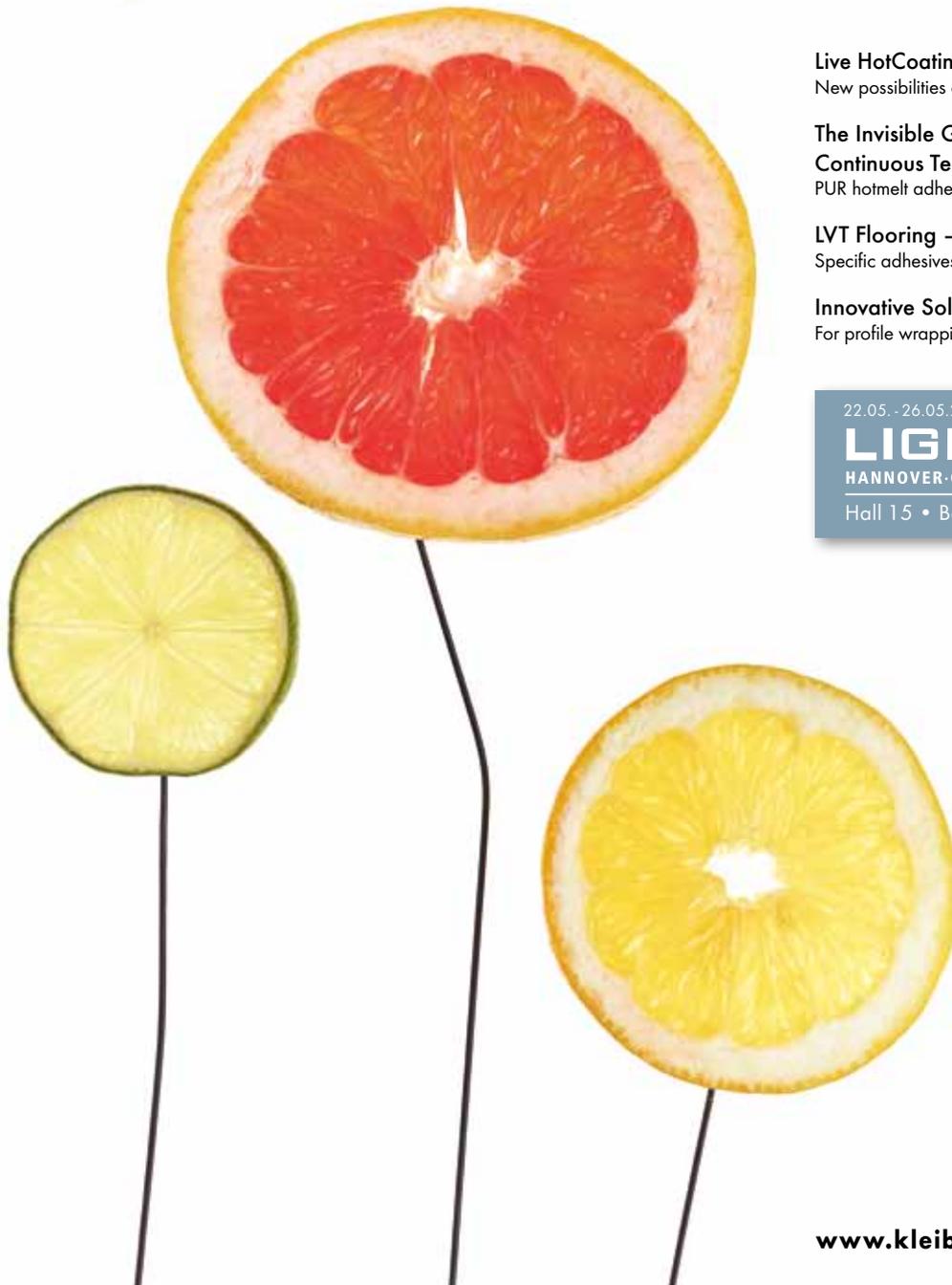


KLEIBERIT®

ADHESIVES • COATINGS

Fresh ideas

by **KLEIBERIT**



Live HotCoating Demonstrations –
New possibilities on a running line

**The Invisible Glue Line in
Continuous Testing –**
PUR hotmelt adhesives set standards

LVT Flooring –
Specific adhesives for extreme demands

Innovative Solutions –
For profile wrapping and flat lamination

22.05. - 26.05.2017

LIGNA

HANNOVER • GERMANY

Hall 15 • Booth D14

www.kleiberit.com

