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- ✓ Has an enhanced wax LifeSeal® for longevity.
- ✓ Only available from PG Bison.

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Kleiberit HotCoating technology draws attention at Ligna 2015

Adhesive and coating specialist Kleiberit demonstrated the newest applications and possibilities for modern adhesives and surface products at its 500 m² booth during Ligna 2015.

The group showed several innovative solutions but the highlight was definitely its HotCoating surface finishing technology that was demonstrated on a Barberán production line and coating system that applies high gloss onto melamine coated board without the use of a primer.

The new system, which is referred to as high gloss hot coating for finishing melamine surfaces, was developed over eight years by Kleiberit and Barberán. Today this production line is among the most sophisticated in the world.

This production line solves many common coating challenges. For example; melamine laminated board is a very difficult material to coat as the melamine has certain adhesive repellent properties that make it nearly impossible to achieve high-quality adhesion when high gloss lacquer is applied to it without the time consuming and expensive use of a primer.

The Barberán production line

Up until very recently high gloss UV finishes were mostly applied using spray guns and curtain coaters and in some instances roller coaters, but Barberán's new system incorporates state-of-the-art roller coating technology to apply the high gloss in a single efficient, solvent-free application, saving time and money.

The production line comprises various Barberán machines that clean and preheat the melamine board, apply and cure the polyurethane (PUR) HotCoating, apply and cure the ultraviolet

(UV) filler coat, apply and cure the UV base coat, sand and clean the base coat and apply and cure the UV top coat.

The Kleiberit HotCoating material and the Barberán production line enable the board manufacturer to complete a typical five step process which includes the hot coating application, filling, basecoating, sanding and lacquering in one pass.

Further, the roller application system is more compact than conventional high gloss systems and dramatically reduces the cost of high gloss coating owing to the HotCoating technology.

In addition, the high gloss can be applied to melamine, cork, some veneers and properly prepared printed particleboard and medium-density fibreboard.

These board products can be used in kitchen and shopfitting manufacturing as well as for panelling and flooring besides other vertical and horizontal applications.

The Kleiberit adhesive solution

The Kleiberit HotCoating products include PUR hotmelts as a base coat and several UV TopCoats to give desired gloss, matt or brilliant white finish.

Kleiberit reports that the chemical cross-linking of the PUR material in its HotCoating product ensures a high surface hardness, which is scratch, shock and wear resistant. The PUR material also has a very high UV stability and chemical



The Barberán production line and coating system

resistance. The direct application of a UV curing topcoat ensures precise setting of the desired gloss level be it high gloss, matt or white.

Kleiberit reports that it has further developed its innovative HotCoating technology to increase abrasion resistance for flooring applications. The flooring product's abrasion class is now at (>AC5) according to the European standard for laminate floor coverings DIN EN 13329. By adjusting the application quantity during the application process the abrasion resistance can be increased or lowered.

The HotCoating product is a 100% solid content system and does not contain any water or solvents. It does not cause volatile organic compound and formaldehyde emissions.

Meanwhile, the company also showed other technologies such as Kleiberit HotCoating ImpressTouch flooring technology, Kleiberit HotCoating DesignEdge postforming technology and Kleiberit polyurethane (PUR) HM for edgabnding.

Experts from Kleiberit demonstrated new fields of application now covered by HotCoating technology.

Kleiberit HotCoating Impress Touch

Kleiberit's HotCoating Impress Touch is a new solution for the flooring industry in terms of scratch resistance together with digital printing technology and surface structures.

HotCoating Impress Touch is pleasant to walk on and features a natural feel and above all has highest resistance and water resistance.

In the flooring industry, there is on the one hand immense cost pressure owing to the worldwide over-capacities of laminate manufacturers and corresponding sinking prices, and on the other hand, significant customer demands can be detected which noticeably shape the market. For example, strong growth can be observed in vinyl flooring. Upon looking more closely, the end user and market do not explicitly demand PVC flooring, but hope for specific properties and attributes.

Flooring featuring the following properties is in demand:

- Pleasant to walk on: quiet and soft
- Natural feel: deep textures and warm
- Highest resistance
- Water resistant
- Environmentally friendly

Kleiberit HotCoating unites exactly these properties regardless of the base substrate. HotCoating is successfully used as a highly resistant and highly flexible coating on solid wood, cork, laminate, vinyl, linoleum, paper and more.

Classic coating and lacquer technologies reach their limits when it comes to the demand of deep textures, for instance creating pores. Kleiberit HotCoating ImpressTouch offers a quite simple process technology for this. HotCoating can be applied with a very high layer thickness in just one application step. Owing to its moisture curing reaction, this layer can be

embossed in an inline process. Either an embossing calender or an (existing) short cycle press can be used for this.

Neither heating nor very high pressure is required. The resulting texture features impressive depth and there is no risk the pores will retract over time, as is the case with other technologies.

This easy to use process enables very attractive design possibilities with deep textures for the flooring industry and also for furniture and interiors.

Coupled with the pleasant, natural and warm feel which HotCoating features, these surfaces precisely meet the demands of a modern, demanding and environmentally responsible manufacturer and user.

Read more about Kleiberit HotCoating DesignEdge and Kleiberit polyurethane (PUR) HM in upcoming editions of Wood Southern Africa and Timber Times.

By Sinette Goosen



Kleiberit HotCoating used in a flooring application



High gloss boards produced using Kleiberit's HotCoating technology