With KLEIBERIT PUR HC 717, the company KLEBCHEMIE developed a new technological process which:

- revolutionises surface sealing
- achieves a surface which enhances the natural optic and haptic of solid wood
- significantly simplifies the complete process

KLEIBERIT HotCoating®
Surface Refinement of Veneer/Paper
Fleece Laminating

HotCoating is the process in which KLEIBERIT PUR HC 717 is applied to the surface. Even with low coat weight, the coating has high wear resistance and shock resistance. The coat weight and the degree of gloss can be adjusted to customer requirements.

KLEIBERIT HotCoating® process offers a wide variety of advantages:

- Singular application
- No interim sanding
- 100 % solids
- Smaller production areas
- Lower capital expenditure
- Reliable production
- Variable
- High scratch resistance (> AC5)

Production cost:
- Increased line speeds up to 100 m/min
- Machine can also be used for multi-layer veneer
- Low coat weights to 35 g/m²

Compatibility:
- PUR is compatible with EVA and PO hot melts
The alternative to laquering …

KLEIBERIT HotCoating®…

From today...
The KLEIBERIT HotCoating® technology, which seals the veneer surface in only one work process, is based on a PUR coating of the surface and has these advantages:

• Good flexibility after curing
• High UV stability
• Very high scratch resistance
• Suitable for tight wrapping radii

HC 717 is applied onto roll material with a special slot nozzle which creates a very smooth and streak-free film. Beforehand, the desired pattern or colouring can be applied through inline staining or printing processes. After application of the UV hardening topcoat, the roll material can be immediately wound and is ready for further processing.

The unique advantage of this technology is:

Only 1 work process

• No sanding of the profile
• 100% solid content
• Low capital expenditure for machinery
• Multi functional application system i.e.
• Transition Profiles
• Flooring
• Window Sills

The end product is veneer or paper with a finished, refined surface which distinguishes itself through extraordinary flexibility. Complex profiles with tight radii can be wrapped without problems and are afterwards “ready to sell”.

Decorative Surfaces/Digital Print

The very good bonding properties of PUR HC 717 to paper, print colours and lacquer systems allows for the use as protective refinement or as the sealing basis for printing. The expert opinion regarding exterior coatings is clear – the number 1 characteristic required before anything else is:

FLEXIBILITY!

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In profile wrapping, diverse decorative papers and foils are being used in addition to real wood veneer.

The first trends and imminent future use of printing technology shows individual and creative design which can also be realized with smaller lot sizes.

KLEIBERIT HotCoating® offers many possible combinations in laminating and printing technology.

KLEIBERIT HotCoating® for Exterior Applications

A nearly perfect combination shows building components which are pre-treated with KLEIBERIT PUR 555 and KLEIBERIT HC 717.

KLEIBERIT PUR 555 is a reactive PUR system which deeply penetrates components and has excellent properties for reinforcing softwood, repelling water and as a flame retardant. When a surface is coated with HC 717 after pre-heating, it is an extremely weather stable component with a refined surfacematerial suitable for exterior weathering.

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HotCoating boasts flexibility which is far from conventional coating systems and furthermore offers very good weathering protection.

Very high water resistance and excellent adhesion in a wet state predispose HC as the protective layer for dimensionally stable building components.

With this technology, window systems, ply wood or facade elements have a surface which maintains its protective function even with swelling, shrinking and mechanical stress. Decorative colouring and combinations with conventional staining or lacquering technology is also possible.

HotCoating High Abrasion Resistance and Flexible Fast Drying

KLEIBERIT PUR 555 is a reactive PUR system which deeply penetrates components and has excellent properties for reinforcing softwood, repelling water and as a flame retardant. When a surface is coated with HC 717 after pre-heating, it is an extremely weather stable component with a refined surface material suitable for exterior weathering.

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