



PARQUET APPLICATION SOLUTIONS



Various products where wooden layers are connected/glued together on top of each other by applying the adhesive on the horizontal part of the timber material. The glue will be applied separately by two continuously running curtains.

Advantages

of separate application system for parquet

- Can deal with all relevant adhesive systems
- Possibility to improve production capacity due to the application in high speed production lines
- No more cleaning
- Applicable for various widths
- All parts available from stock for quick spare-part deliveries
- Optimized control system to help the operator to produce rational batches

■ Choice of materials and components

We have designed the equipment for long lasting reliable performance. This means that we use the state of the art materials and components like:

- High-end stainless steel qualities
- Ceramics
- High value rubbers and plastics, like Viton, HEPDM, PTFE and PEAK
- Control systems of Mitsubishi/Siemens
- Operator panel with integrated LCD touch screen
- Valves for the hydraulic system of Sun
- Components are standard Mixon stock parts or bespoke components
- Very advanced coatings to preserve the materials from acid attack



Application areas

for parquet by separate application

Various products where wooden layers are connected/glued together on top of each other by applying the adhesive on the horizontal part of the timber material. The glue will be applied separately by two continuously running curtains.

The products which are produced according the principle are:

- Parquet
- Other products built of same principle
- Interior wood panels
- Multiplex panels
- Other non-bearing panels
- Other products on demand

Adhesive systems

for separate applications

Our solutions deal with the following adhesive systems:

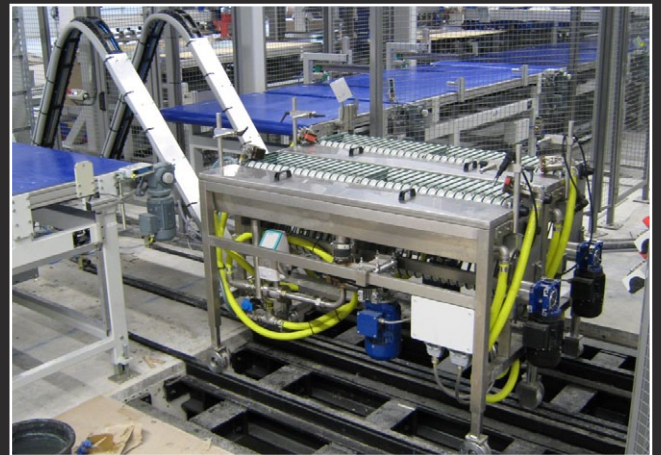
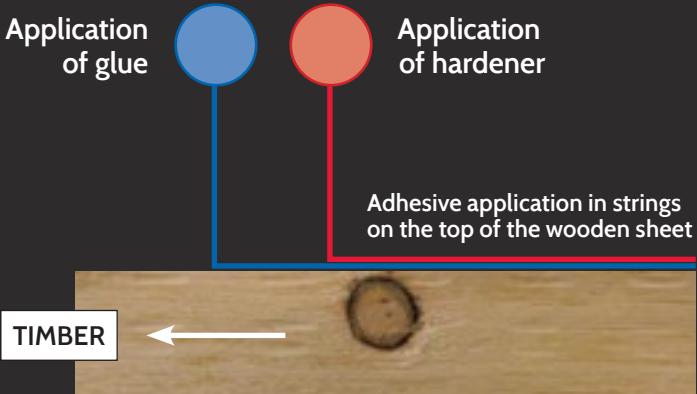
- Two component systems, for separate application like MUF, UF and other applicable adhesive systems.

The Mixon 3000

for parquet application

Mixon's system for mixing and dosing for lamina application is based on 26 years of experience.

In order to apply the adhesives fast, adequate and reproducible we use our reliable components and have completed the machinery with high-end control systems.



■ Dosage

The glue and hardener are dosed and regulated by ex-center screw pumps. The glue and hardener are circulated through a wide spreader pipe in a reservoir. The glue/hardener taken away from the system for application is replaced automatically. The level sensors over the reservoirs over-view the required glue/hardener level and will compensate the used adhesive.

The system will supply the glue hardener in the dosage range based on what is required. This means that both the width of the application and the mixing ratio will be designed for each single customer.

■ Application

The application is achieved by two spreader pipes, length can be delivered up to 3 m'. The system runs constantly during the production by two glue curtains.

At the end of the day the reservoirs are covered with locks, in order to prevent the adhesive to dehydrate. The spreader pipes can easily be removed from the machine and need to be cleaned with warm water, to prepare for next day's production.

This type of application method will replace the normal roller spreader application. Due to the Mixon separate application system the speed of the line can be improved from 40 m/min up to 150 m/min. This together with the separate application will reduce cleaning and more over will improve the production capacity enormously.

■ Control system

A separate operator panel placed at the working position of the operator, will allow to make all needed application adjustments. Adjustments will be visible direct for the operator.

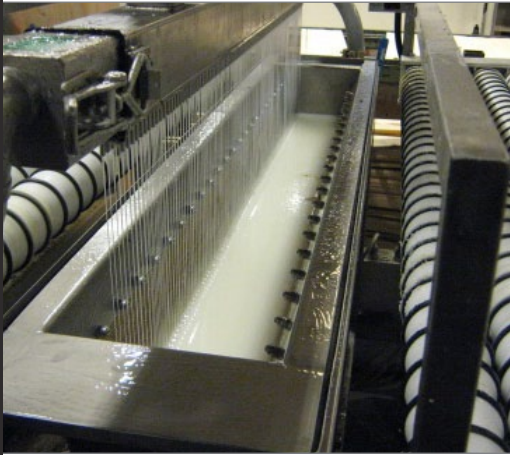
The panel is equipped with an LCD touch screen, with simple "windows-like" menus for easy changes of the glue operation. By storing the application set-points in

the memory, it's easy to recall the perfect input parameters by changes of let's say changed mixing ratio. This receipt handling will in all extent help the operator to quickly adjust the machine to new set-points, without losing valuable time to the production.

■ Cleaning

As the system is designed for the separate application of glue and hardener, the cleaning of the machine is down to an absolute minimum. Normally not more than 5 minutes per day are needed for some cleaning activities.

If you have other questions please contact us or find more information on our web site www.mixon.se.

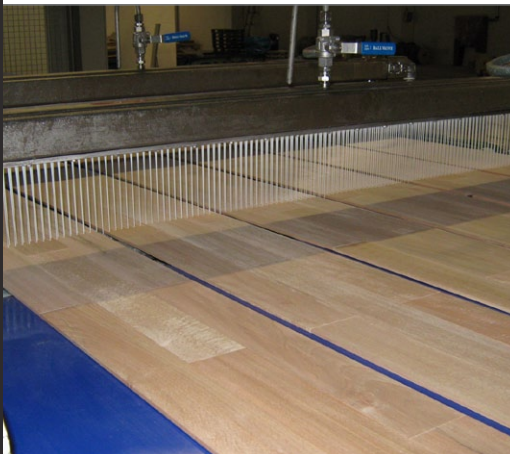


Today I use a roller spreader, what advantages has the separate system from Mixon?

■ First of all the adhesive will be applied separate, which means no mixed glues and no more end of Open Times and no more cleaning.

Furthermore the line speed for roller spreaders is limited to max. 40 m/min. The Mixon system can easily deal with 150 m/min, which means a huge production increase.

Last but not least as there are only a few parts moving in this system and there is no physical contact between the wooden layers and the machine, the wearing is very little. Roller spreaders do tend to be expensive in maintenance, while this solution is very economic in its wearing.



What kind of adhesive systems can I use for this application?

■ Only those systems which are designed for separate application of glue and hardener. We recommend to contact the leading adhesive suppliers to find out more about their offer.



Spare parts, how can Mixon help me?

■ The absolute majority of the components we use in our machines are on stock at Mixon.

After you have placed the spare part order you will normally receive the spares within 24 to 48 hours, of course depending on your coordinates.

Do I need to cool the application, due to production circumstances with a high temperature?

■ Especially for summer conditions the adhesive can be much warmer and therefore a lower viscosity.

In order to assure the correct application throughout the whole year we recommend to cool the application head, by a chilled water system.



My production is on the other side of the world, what kind of quick assistance can Mixon offer?

■ Normally we can assist direct per phone or email. However we recommend the customer to invest in the option “remote control”. This gives us the possibility to look into the program of the PLC by the www. This is a very quick and free service we can offer our customers to address issues.

Further we recommend our customers to agree on an annual preventive service, which normally gives full production availability during one year after the service.



Specifications

of our solutions

■ Parquet application

Model	Capacity (l/min)	Note
Two component solution separate application		
Mixon 3055E	5,0 - 15,0	Full control system
Mixon 3057E	10,0 - 30,0	Full control system
Mixon 3059E	20,0 - 50,0	Full control system

■ Ratio & Measures

Mixing ratio	Between 100:50 up to 100:200
Application width	Between 40 mm up to 3.000 mm
Weight	About 400 kg
Dimensions (l x b x h)	Depending on each situation
In- / out-feed table	Depending on each situation
Option	Cooling system

■ Needed connections

Compressed air	6 bar, 100 l/min
Warm water	40-45 °C, at 6-8 bar
Electricity	400 V/50 Hz/3-phase/ 10 A or 230 V/50 Hz/3-phase/ 16 A

Mixon | Parquet Application Solutions | 3000 Series