

Solid wood

- **Laminate assembly of windowframe scantlings**
- **Manufacture of parquet, edgebonded or multiply panels**



Jowacoll® 103.10/36/70

Jowacoll® 102.26

Jowacoll® 107.20

Reactive dispersions for solid wood



Whether for laminate assembly of windowframe scantlings, or for the manufacture of parquet, edgebonded or multiply panels – reactive dispersion adhesives ensure first-class bonds.

If you need an adhesive of D3 durability according to EN 204/205 for your products (interior applications with short-term exposure to water or high humidity), or a D4 grade (interior applications with frequent long-term exposure to water or condensation / exterior applications with adequate surface protection) - the answer for all of these manufacturing processes is the matching adhesive made by Jowat.

When reactive PVAc dispersions are used, the advantages are clear for example in comparison to the formerly used UF resins. The bonded materials are low in formaldehyde (key word eco-parquet) and need much less adhesive, require clearly reduced pressing times in cold bonding, and achieve a more elastic glueline - all of these are convincing arguments. In hot pressing, the reactive dispersions used in solid wood bonding are also superior, since they can be processed at much lower temperatures. Not only will this help to reduce energy consumption, but additionally, tensile stress within the timber components is reduced. If HF processes are used to raise the temperature in the bondline, the thermoplastic PVAc glue has to have special properties. The strength required at higher temperatures is reached

by adhesives that are developed especially for these technologies.

The various adhesive groups are mainly distinguished by:

- Viscosity
- pH-Value
- Processing parameters
- Solid content
- Initial strength

Depending on the application method (roller, nozzle, blade etc.) and on the surface condition of the substrate, the adhesive used has to meet different requirements, for instance concerning the viscosity.

The spectrum for our D3 adhesives ranges from 6,000 to 15,000 mPas, providing a solution for all standard processes on the market. If in individual cases a durability of D4 grade is required, some D3 adhesives can be upgraded by using the corresponding crosslinker.

Various species tend to discolour when acid adhesives are used. This risk can be reduced / prevented thanks to several Jowat adhesives of pH-neutral D3 quality. These modifications additionally offer the advantage that they are less aggressive in processing which reduces machine wear to a minimum.

The range of products is complemented by special one- and two-component D4 dispersions. Above all when laminated windowframe scantlings or door

jams are manufactured, these adhesives are suitable. The required certificates for our products are available upon request.

An increased heat resistance of dispersions according to the standard EN 14257 (WATT 91) - tensile shear resistance data of $>7\text{N/mm}^2$ at $80\text{ }^\circ\text{C}$ - is provided by a large number of glues from the **Jowacoll®** dispersion series.

Modern reactive dispersions today set the standard in solid wood bonding due to their wide processing scope. Providing also additional advantages by responding to the actual demands for interiors free of pollutants, these PVAc dispersion glues represent the current state of technology for the manufacture of solid wood furniture and construction elements.

Jowacoll® 103.10

Type	1-component
Durability class	D3
Viscosity Brookfield at $20\text{ }^\circ\text{C}$ [mPas]	approx. 10,000
pH-value	approx. 3
Open time [min]	approx. 6 - 8

Jowacoll® 103.36

Type	1-component
Durability class	D3
Viscosity Brookfield at $20\text{ }^\circ\text{C}$ [mPas]	approx. 12,500
pH-value	approx. 3
Open time [min]	approx. 10 - 12

Jowacoll® 103.70

Type	1-component
Durability class	D3
Viscosity Brookfield at $20\text{ }^\circ\text{C}$ [mPas]	approx. 10,000
pH-value	approx. 6
Open time [min]	approx. 5 - 7

Jowacoll® 102.26 + 5 % 195.35

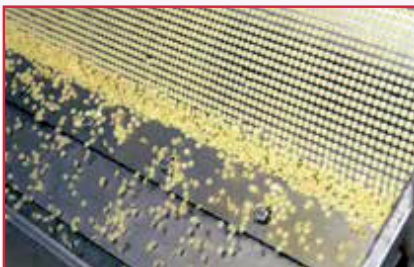
Type	2-component
Durability class	D4
Viscosity Brookfield at $20\text{ }^\circ\text{C}$ [mPas]	approx. 5,000
pH-value	approx. 3
Open time [min]	approx. 7 - 10

Jowacoll® 107.20

Type	1-component
Durability class	D4
Viscosity Brookfield at $20\text{ }^\circ\text{C}$ [mPas]	approx. 6,000
pH-value	approx. 3
Open time [min]	approx. 10



Jowat | Your Partner in bonding



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