



Recommendations

For gluing MDF



Recommendations for gluing MDF

Gluing MDF normally does not present any particular problems. The choice of glue depends on the properties of the materials to be glued. Temperature and ambient humidity during application and curing of the glue are essential to obtain good results. A minimum temperature of 15°C is recommended for the processing of most glues.

Also the moisture content and the temperature of the panels as well as the planned surface finishes (e.g. veneering) must comply with the instructions of the glue manufacturer. They must approximate the eventual equilibrium moisture content of the woodwork installation as closely as possible.

Furthermore, the absorption power of the panel and the differences in absorption between the various parts of a single panel (face / edges) must be taken into consideration. Other factors influencing the choice of glue include the glue application method (by hand, roller or spray gun), press temperature, pressure and time under pressure, etc.

Three types of glues are recommended for gluing MDF panels together, or for gluing a surface finish on an MDF panel:

- PVAc glue (= standard white wood glue), type D3
- PU hotmelt
- UMF glue with a high melamine content (> 30%)

For gluing fire retardant panels (e.g. Fibrabel FR, Fibralux FR, Fibralux MR FR NAF, ...), we particularly recommend to use the following glues:

| | Recommended glue type | Recommended supplier - reference |
|--|---------------------------------------|---|
| Gluing FR panels together | PVAc, type D3 | Jowat - JowaColl 103.30 Jowat - JowaColl 103.70 Rakoll - GXL3 |
| Gluing HPL (High Pressure Laminate) on FR panels | PVAc, type D3 | |
| | PU hotmelt | Jowat - Jowatherm 609.30 |
| Gluing wood veneer on FR panels | UMF with high melamine content (>30%) | AkzoNobel - Casco MUF system A014/H015 |

The instructions of the glue supplier should always be respected, e.g.:

- storage conditions of the glue
- preparation and temperature of the glue & the MDF panel
- application type & -instructions
- glue spread (g/m²)
- press type, press time & pressure
- ...

In order to define the open time, amount of glue needed, press conditions,... it is strongly advised to perform a preliminary test on the industrial line with a limited number of panels.