



ADVABOND XL3 HV

Description

ADVABOND XL3 HV is a high viscosity, high performance, one-part cross-linking PVA wood glue which when cured gives strong bonds in general carpentry, door pressing, veneering and floating floor bonding applications. Its high viscosity makes it ideal to use on very porous substrates commonly found in the manufacture of fire doors, and in vertical applications where a high viscosity, fast-setting adhesive is beneficial.

Bonds made with ADVABOND XL3 HV exhibit good heat and water resistance and will conform to EN 204 ó Group D3. It is therefore ideal for use in high humidity areas such as bathrooms and laundries.

ADVABOND XL3 HV is classed as fast setting and responds well to RF curing.

Typical Properties

Appearance	White creamy liquid
Dry Film	Tough and hard yet flexible
Viscosity	10,000 ó 12,000 cPs
Total Solids Content	48 - 50 %
Specific Gravity	1.06 g/ml
pH	3 - 5

Application Information

ADVABOND XL3 HV is designed to be used by squeeze bottle or roller. Dilution is not recommended.

Ensure substrates are free from oils dirt or grease.

Woodworking

- Timber moisture content should be between 10% and 12%
- Ambient and timber temperatures should be above 10°C. Best results are obtained when operating in the temperature range of 12-23°C.
- Apply enough adhesive to ensure the glue line is fully covered and wet-out when surfaces are pressed together.
- Adhesive should be applied as a thin, even coating to one surface only. Parts should be combined, while the adhesive is wet, using good even pressure; 200-900 kPa (30 to 130 psi) is recommended.
- Parts should be clamped for 3 to 4 hours and will reach full strength in 24 to 48 hours, depending on the moisture content of the timber, ambient temperature and humidity.

All information is based on results gained from experience and tests therefore believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as the required performance, production techniques and substrates used can vary significantly. Therefore it is imperative that a full evaluation is undertaken to confirm the suitability of the product before commercial production.



Door Pressing and Veneering

- Application rate should be tested on each species of veneer. It will vary depending upon absorption rates but an indicative norm to achieve good bonds is 190-240 gsm.
- Open time (the time between applying glue film and mating with cover sheet substrate) should not exceed 5-10 minutes.
- Assembly time (the time mated substrates are formed into a dead stack, but yet to enter press) should not exceed 25-30 minutes.
- Best results are obtained by a pressing platen temperature of 90-105°C for approximately 45-60 seconds using a pressure of 400-600 kPa (4-6 bar). Alternatively cold press for 35-45 minutes at 20°C ambient, but ideally 3-4 hours if work cycle permits.

Limitations

Do not use ADVABOND XL3 HV below 10°C.

ADVABOND XL3 HV is not suitable for exposed exterior or load bearing applications.

If even faster setting speeds are required, try ADVABOND XL3 PLUS.

Cleaning

Clean up adhesive while wet with warm water.

Storage

Product should be stored in the original container out of direct sunlight between 5°C and 30°C. Protect from freezing. Rotate stock using oldest batches first. Close containers airtight after use. For best performance use product within 12 months.

Safety & Disposal

This material is non-hazardous. Refer to the Material Safety Data Sheet (MSDS) for further information.

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