



Technical Data Sheet

AV XL PLUS

Single Pack Crosslinking PVA

Description

AV XL Plus is a medium to fast setting, medium solids, single pack, crosslinking PVA emulsion adhesive which develops excellent bond strength, high heat resistance and humidity resistance, without catalyst addition, when dried at normal or elevated temperatures. It produces a clear non staining glue line.

AV XL Plus is an excellent adhesive for cabinet and furniture assembly where high bond strengths, good water/humidity resistance and relatively short clamp times are required.

Applications include:

- Edge gluing timber sections
- Solid timber veneers or plastic laminates to core substrates
- Finger jointing
- Panel to frame gluing
- RF curing applications

Features

- Designed for use with RF Curing equipment.
- Can be used in cold pressing and hot pressing applications.
- A single pack product producing a clear glue line.
- Water resistance exceeds DIN 68 602-D3
- Good creep resistance, exceeding the requirements for Resistance to Sustained Load of BS 4071.
- Waterbased and non flammable.



Application Instructions

Ensure adequate tests are conducted before using commercially. Mix thoroughly before use.

Precautions

Please note some timbers such as Blackwood and Beech may be susceptible to stain development and discolouration from adhesives, which are acidic in nature (low PH) such as **AV XL Plus**.

Use of adhesives in very cold conditions may result in poor film formation with powdery glue line.

Application Instructions

AV XL Plus is supplied ready for use. Ensure surfaces to be bonded are clean, dry and free from oil, dust and any other contamination. Joints should be close fitting. Apply glue to one surface at a coverage rate to ensure wetting out of both surfaces to be joined. Press/clamp while adhesive is still wet.

AV XL Plus has a relatively short assembly time, so pressure needs to be applied to the joint assembly within the 'open' time. This will vary with the density, 'wet-out' characteristic, moisture content of the substrates, and the atmospheric conditions occurring when gluing. Low temperature, damp conditions will extend the clamp time required considerably.

Assembly Conditions & Clamp Times

Apply at a coverage rate of 5 - 10m² per litre of glue according to the substrate characteristics and working conditions.

Temperatures	Low Density Timbers	High Density Timbers
20°C	90 minutes	180 minutes
30°C	60 minutes	90 minutes

Glue lines should show glue squeeze out on application of pressure. Where the minimum pressure period is used, "dead" stacking of the freshly bonded panels or timber assemblies for 24 hours prior to machining is recommended.



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RF Curing Application

AV XL Plus is suitable for use with RF Curing equipment. Trials should be conducted with the timber species and sections to be used in production to optimise curing conditions.

Hot Pressing

AV XL Plus can be used in hot pressing applications, in panel and general assembly gluing. Temperatures and Press Time conditions will vary for the particular application, substrate conditions, etc. We would be pleased to assist with 'laboratory' trials to provide a basis for 'production' facility trials.

Properties

Type	Unfilled PVA
Solids	High
Viscosity	Medium
Open Assembly Time	8 – 10 mins @20°C
Closed Assembly Time	7 – 12 mins @ 20°C (depending on timber density)

Storage & Shelf Life

Store in a cool, dry place, out of direct sunlight. Storage areas must be well ventilated and comply with Local, State and Federal regulations. For maximum shelf life, store between 5° and 20°C.

Shelf life is up to 9 months when stored in original, unopened containers, under the above conditions.

Do not allow product to freeze.

Ensure containers are well sealed when not in use.

To prevent the adhesive from skinning during use, ensure open troughs or holding reservoirs where there is little circulation are covered.

AV XL Plus is acidic in solution so should be used with plastic equipment. Contact with metal containers or equipment, other than stainless steel, in storage or use is not good practice and may cause staining problems in the glue line.

Do not store directly on concrete.

Clean-Up

Wipe excess glue from joints with clean wet cloth before glue sets. Clean up excess and equipment with water prior to setting.

Health & Safety

Please refer to the Material Safety Data Sheet which is available on request.

Product Details

Item Number	Size	Colour	Pack Quantity
912871	5 Litre		4
912872	20 Litre		
913043	200 Litre		

