



Technical Data Sheet

Quest D4 PVA Wood Adhesive



QUEST D4 PVA IS A SINGLE COMPONENT PVA WOOD ADHESIVE WITH SUPERIOR WATER-RESISTANCE CHARACTERISTICS.

QUEST D4 PVA MEETS THE REQUIREMENTS OF BS EN 204 CATEGORY D4 FOR WATER RESISTANCE.

Quest D4 PVA is designed for bonding hardwoods, softwoods and most other porous materials where maximum water resistance is required.

It is suitable for both hot and cold pressing applications in the manufacture of windows, doors, furniture and laminated components.

Quest D4 PVA can also be cured using radio-frequency equipment.

Benefits

- Outstanding water resistance — EN 204 D4
- Excellent bond strength on hard and soft woods
- Fast curing time
- Suitable for hot, cold and RF pressing applications

AVAILABLE COLOURS

White

TECHNICAL DATA	
Brookfield viscosity	10 000 – 14 000 mPas
Solids content	48 – 52 %
pH	3 – 4
AVAILABLE SIZES	
Polybottle	500g
Jerrican	5kg
Drum	25kg

COLD PRESS TIMES			
Temperature (°C)	15	20	25
Relative Humidity%	85	65	65
Time (mins)	40	20	10

HOT PRESS TIMES						
Temperature (°C)	50	60	70	80	90	100
Time	4	3	2	1	¾	½



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PREPARATION AND APPLICATION

Ensure that the surfaces to be bonded are smooth, clean and free from dust, grease or other contaminants.

Wood, plywood and laminated materials should be of uniform thickness. Some dense hardwoods may require light sanding before bonding.

For best results, the moisture content of the materials should be between 7–13 %, and the variation between adjoining components should not exceed 3 %. When pressing above 105 °C, moisture content should not exceed 10 %.

Apply Quest D4 PVA evenly to one surface using a brush, hand roller or mechanical applicator. Typical adhesive spread rates are between 80 – 180 g/m², depending on surface porosity and the type of joint.

When bonding difficult timbers such as teak or other high-density hardwoods, apply adhesive to both surfaces.

Assembly time depends on temperature, humidity and spread rate. Lay the parts together within the open time and press for as long as necessary to achieve handling strength. The pressure should be sufficient to ensure full contact across the joint area. Allow 24 hours for full bond strength to develop.

Higher levels of water resistance form more slowly, so joints should be tested no sooner than 7 days after bonding.

HANDLING AND STORAGE

Clean all tools, rollers and equipment with water before the adhesive dries.

Quest D4 PVA should be stored in its original sealed container in a cool, dry place at a temperature between 5 °C and 40 °C. Protect from frost and direct sunlight.

If the adhesive has been exposed to cold, allow it to return gradually to room temperature and stir gently before use. Do not use product that has gelled or separated irreversibly.

When stored under the recommended conditions, shelf life is 6 months from the date of manufacture.

DISCLAIMER: Due to the variation in materials likely to be handled by prospective users of this product, together with differences in production techniques and ultimate performance required, it is important that this product is thoroughly evaluated under production and end use conditions before being commercially adopted. Such an evaluation should incorporate an ageing test and this test should be repeated if the substrates on which the this product is used are changed in any way or are purchased from a different source. During the evaluation and testing of the product, it is the purchasers/end user's responsibility to carry out appropriate actions for the protection of the environment, the health and safety of its employees and purchasers of its products. No employee of Quest Hardware has any authority to waive or change the forgoing provisions. The above recommendations are made in good faith for the guidance of users and are without liability. Any queries should be made in writing to the head office of Quest Hardware.

Revision date: June 2022

