



Multibond[®] EZ-2 HV

PRODUCT DESCRIPTION

Multibond EZ-2 HV is a shelf stable, one component (pre-catalyzed) cross-linking polyvinyl acetate emulsion adhesive. It is a higher viscosity version of Multibond EZ-2 that has a clear glue line. Multibond EZ-2 HV is characterized by its low minimum use temperature making it an excellent alternative for use during winter months when factory temperatures are low. It is designed or used in applications such as radio frequency and hot press gluing. With its moderately fast setting rate, viscosity stability, and high percent solids, Multibond EZ-2 HV can also be used for a variety of assembly gluing applications.

PHYSICAL PROPERTIES ¹

Chemical Family Description: One component crosslinking polyvinyl acetate adhesive

Appearance: Cream colored liquid

pH: 2.6 - 3.5

Freeze/Thaw Stable²: Yes

Typical Viscosity (cps): 10,000

Weight Solids (%): 45.5 – 49.4

Specific Gravity: 1.09

Suggested Minimum Use Temperature³: 7 °C

Edge and Face Gluing

Stock Preparation: The preparation of the stock to be glued is extremely important. Joints cut from rip saws should be free of saw marks. They should also be straight and square. Moulded or jointed stock should be free of knife marks. Glazed or burnished joints will prevent glue penetration and should be guarded against. When possible, glue joints should be prepared and glued the same day. The stock should be machined on both top and bottom surfaces to allow even contact with radio frequency platens.

Spread: Generally, 200-245 g/m² of glue line is adequate. Lower adhesive spreads require better stock tolerances and shorter assembly times. Commonly, a mechanical glue spreader is used to apply a uniform spread to the gluing surfaces.

Pressure: Pressure is dependent upon the species or material to be glued and joint preparation. Direct contact of the gluing surfaces must be made to obtain maximum strength. Suggested pressures for various wood densities are: low 7.0-10.5 Kg/cm²; medium 8.8-12.3 Kg/cm²; high 12.3-17.6 Kg/cm². Clamps for edge gluing should be spaced 20-40 cm apart and 5 cm from the end of the panel to evenly distribute pressure along the entire length of the glue line.

RF Cure Time: Radio frequency cure times will vary from machine to machine. Machine manufacturers suggest that machines will cure about 645 cm² of glue line per minute per kilowatt. Glue joints should feel warm immediately after the cure cycle. Cure times should be determined through plant trials.



PERFORMANCE PROPERTIES

Meets or exceeds the following industry standards:

- European Standard DIN EN 204 D3 (formerly DIN 68602 B3)
- European Standard DIN EN 14257 2006-09 (WATT 91)
- European E-1 formaldehyde emission standard

ASTM D-905 Block Shear Strength:	Kg/cm ²	wood failure%
25 °C	200	56
65 °C	108	07

Room Temperature Speed of Set: 1.02 (Moderate)

RELATED PRODUCTS

Multibond EZ-2HV is a higher viscosity version of Multibond EZ-2. Multibond EZ-1 is designed for edge-gluing and laminating in cold press, hot press, and radio frequency. Multibond EZ-2 is similar to Multibond EZ-1. However, it may be used under colder plant conditions and is designed for finger jointing. Multibond 2015 is formulated for longer assembly times than Multibond EZ-1 and improved bleed through protection on thin veneers. Multibond 2025 permits longer assembly times than either Multibond EZ-1 or Multibond 2015 and is recommended for plywood and veneering.

HANDLING AND STORAGE

Store in tightly closed original container. Protect from freezing. Storing at temperatures above 25°C will reduce the maximum storage time. If thickening, separation or settling occurs, the adhesive should be thoroughly mixed and will then be ready to use again.

¹ All numerical values represent typical properties.

² If product has been frozen, contact Technical Service for instructions.

³ Measured by Franklin's film formation test. Gluing conditions will affect minimum use temperature.

IMPORTANT NOTICE TO CUSTOMER:

The recommendations and data contained in this Product Data Sheet for use of this product are based on information Franklin believes to be reliable. They are offered in good faith without guarantee, as conditions and methods for use of our product by Customer and are beyond Franklin's control. Customer must determine the suitability of the product for a particular application before adopting it on a commercial scale. Discoloration and checking of wood veneer materials may occur with use of the product. These occurrences range in appearance, color and may also vary depending upon the species of wood veneer to which the product is applied. Such discoloration and checking may appear during or after the manufacturing process which utilizes the product. Environmental conditions in some manufacturing plants and end-use locations can contribute to discoloration and checking. Because such discoloration and checking are attributable to conditions beyond Franklin's control, Franklin cannot assume any responsibility or liability for any discoloration and/or checking problems that might occur.

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