



# LIONGRIP VERSA II

TYPE II WOOD GLUE

## PRODUCT DESCRIPTION

The LIONGRIP VERSA II is a pre-catalyzed crosslinkable polyvinyl acetate based adhesive that provides good water-resistance and excellent bond strength. The VERSA II is suitable for end products that are intended to be exposed to weather, and for interiors projects where high humidity resistance or water resistance is beneficial. VERSA II also meets ANSI Type II water-resistance.

## BENEFITS

- Water-resistance PVA Type II
- One part glue
- Easy clean up
- Can be cold pressed, hot pressed or radio frequency cured

## PREPARATION

Mix well before using. Adhesive, material and room temperature should be above 20°C/68°F. All surfaces to be glued must be clean and dry. Best bonds are obtained when moisture content of wood ranges between 8% and 12%.

## PACKAGING

ITEM CODE	SIZE
R79200130	4 L can
R79200430	15 L cannister
R79205530	205 L cannister
R7920TT30	1000 KG

## CLEAN-UP

- Clean hands and tools with warm soapy water before the product dries.
- If glue has hardened, use 50% solution of acetone and water for cleaning. On bonded materials, scrape off and sand dry excess.

## PHYSICAL PROPERTIES

Viscosity:	4,000 - 5,500 cps (5/20 rpm/ 25 °C/77°F)
Solids:	48% - 50%
Specific Gravity:	1.11
pH:	3
Color:	White
Dry film	Transparent
VOC calculated: (SCAQIMDR 1168) (Ecologo UL2762)	< 30 g/L less water < 5 % weight/weight

## VERSA II BOND SPECIFICATIONS

- CSA 0112.8 M1977 / Type II
  - BS EN 2004 : 1991 / Class D3
  - DIN #68602 / Class B3
  - CSA 0132.2.3 Type 1 adhesive for plain wooden doors
  - NWWDA I.S. 1 Type 1 adhesive for plain wooden doors
- VERSA II is approved for 20-90 minutes fire rated wood and mineral core fire doors, with or without plastic laminate faces.

## HANDLING & STORAGE

- Shelf life is 18 months at room temperature in original unopened container.
- Viscosity of VERSA II will increase with time, but as long as the material can be stirred to a smooth consistency it is satisfactory to use.
- Store indoor in a cool, dry location between 10°C/50°F and 35°C/95°F.
- Keep container closed when not in use. Protect from freezing.
- Product is freeze-thaw stable if frozen not lower than -10°C/50°F in transit.

## ENVIRONMENT & DISPOSAL

- This product contains no added urea-formaldehyde resin.
- The use of this product may contribute in obtaining LEED credits.
- Product certified for reduced environmental impact (ECOLOGO UL2762).
- Consult your municipality to dispose container and left-over in accordance with environmental regulations.

## ADHESIVE APPLICATION

1. Apply directly from the plastic bottle or using a stiff brush or a mechanical glue spreader.
2. Spread glue to result in squeeze out when parts are assembled. Joints must be tight fitting.
3. Clamp or press using sufficient pressure. When glue becomes colorless, a full strength bond has been formed. Allow to dry before sanding.

## GUIDELINES (AT 20°C & 50% RH)

Assembly time: 15 to 20 minutes

Clamp time: 25 to 60 minutes

Drying time: 6 to 8 hours

Spread rate: approx. 6 sq. m./L (240 sq. ft/ gallon)

Open time: 10 to 12 minutes

## ATTENTION

- Not for continuous submersion or use below waterline.
- Must dry 5 hours before exposing to water or humidity.

## PRECAUTIONS

- Keep out of reach of children.
- May cause slight eye and skin irritations. Avoid contact with eyes and skin.
- **FIRST AID TREATMENT:** If in eyes or on skin, rinse the affected areas with water. If swallowed, drink water and call a doctor.
- **FOR INDUSTRIAL USER - Refer to Safety Data Sheet (SDS) for further information.**

## CONTACT US

Technical assistance is available by phone at:

1-800-361-6000 (CAN)

1-800-619-5446 (USA)

To acquire technical and safety literature, please visit our website at [www.richelieu.com](http://www.richelieu.com)

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**WARRANTY:** *Surface conditions, product application, storage and transport are beyond the manufacturer's control; liability, if any, is limited to the replacement of product ONLY.*