



LION GRIP

Adhesive / Adhésif

R 500

FEATURES AND BENEFITS:

LIONGRIP R 500 is an exceptional water base contact adhesive that has high solids and excellent contactability suitable for postforming of high pressure laminate. Its viscosity allows for it to be sprayed, brush or roller applied.

It is an excellent choice for permanent bonding adhesive applications including wood, plastic laminate, gypsum, metals (except copper) and many other bonding applications.

R 500 is a low VOC, high solids product that performs very well in replacing low solids, high VOC flammable contact adhesives. The high solids provide for a low cost per square foot basis. The exceptional contactability allows for strong immediate bonds while providing high heat resistance.

The product is OTC Compliant.

Qualifies for LEED®-NC & CI EQ Credit 4.4: *laminating adhesives shall contain no urea formaldehyde resins*

CHARACTERISTICS:

R 500 is double the solids of most conventional solvent adhesives. Thus, it will provide a significant mileage advantage. It has exceptional tack and high peel and shear strength. It will air dry or can be accelerated with the use of conventional drying ovens or air movement such as a fan. When high humidity is present, it is suggested to provide some air movement. The adhesive film will change color indicating to the end user it is ready for bonding.

PHYSICAL PROPERTIES:

Base:	Neoprene
Solid Content (approx.):	51% +/- 1%
Viscosity:	600 cps
Color:	Natural / Green
Flash Point:	None
Dry Time:	Approximately 30 Minutes
Open Time:	60 Minutes
VOC:	53 grams/liter (EPA Method 24)
Shelf Life:	9 months in unopened container
Recommended Coverage:	335 sq. ft. / gallon bonded surfaces
Clean Up:	Warm Soapy Water

PACKAGING & COLOR:

R 500 4 11	Natural	1 gal / 4 liters
R 500 20 11	Natural	5 gal / 19 liters
R 500 4 71	Green	1 gal / 4 liters
R 500 20 71	Green	5 gal / 19 liters

DISCLAIMER OF WARRANTY:

Manufacturer and distributor of this product make no warranty, express or implied, including, but not limited to any implied warranty of fitness for a particular purpose. No warranty is made as to the use or effects incidental to such use, handling or possession of the materials herein described. User is responsible for determining whether this product is fit for a particular purpose and method of application and assumes all risk and liability associated herewith. Manufacturer liability is limited to replacement of product or reimbursement of purchase cost, at its sole discretion. No representative of ours has authority to change this provision which relates to all sales.

See Material Safety Data Sheet for Proper Handling and Safety Information

REV 5/14

LIONGRIP R500

Water Based, Low-VOC Adhesive Spray

APPLICATION:

1. Substrates to be bonded should be clean and free from moisture, dirt, oil and other contaminants.
 2. Temperature of adhesive and substrates during fabrication should be at least 65°F (18°C) for best results.
 3. R 500 can be brushed, rolled and sprayed. If bushing and rolling, apply 100% coverage (3.0 dry grams/sq. ft. or higher). If spraying, coating weight of 2.5 to 3.5 dry grams should be applied. The atomization pressure at the gun should be 5 to 20 psi and the fluid pressure should be 10 to 15 psi.
 4. When applying contact adhesives to porous materials such as plywood and edges, it is advisable to apply two coats. Apply the first coat and allow to dry. This will act as a sealer. When dry, apply the second coat and allow to dry properly before bonding. This helps to insure that the adhesive does not soak-in below board fiber and that you have the proper amount on the surface to achieve a strong, permanent bond.
 5. Allow the adhesive to dry properly before bonding. Water borne contact adhesives will change color when dry. However, to check for dryness, use the back of your fingers and press into the adhesive and lift up. Any adhesive transfer indicates that the adhesive requires more time to dry. If the adhesive feels tacky, but there is no transfer to the fingers or opaque areas in the adhesive, the adhesive is ready for bonding. Dry time can vary depending on temperature, humidity and coating weight. Drying time can be reduced using air movement, drying ovens, lamps, etc.
 6. Typical drying will occur in 30 minutes, however, dry time can vary depending on temperature. Bonds can be made as soon as the adhesive is dry. However, bonds made any time in the one hour open time will be as strong as those made immediately after dry.
 7. Position the pieces carefully, since a strong bond is made instantly upon contact. Spacers such as dowels or strips of laminate should be used to prevent contact prior to proper positioning.
 8. Use good uniform pressure. Use the maximum possible pressure without damaging the substrates. Minimum recommended pressure is applied with a J-roller.
 9. The completed panel can be routed or trimmed, cut, filed and machined immediately.
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SPRAY INFORMATION:

	Automatic	Manual
	Binks/DeVilbiss	Binks/DeVilbiss
Spray Gun	Mach 1A / Spirit H2000	Mach 1 / V3
Fluid Tip	94 / FF	94 / FF
Fluid Needle	47-478 / FF	54-3941 / FF
Air Cap	94P / 28,33	94P / 28,33A

APPLICATION PRECAUTIONS:

DO NOT use copper and its alloys to transfer or contain any contact adhesive.
DO NOT laminate copper with this adhesive.
DO NOT exceed the recommended "open time."
Thinning the adhesive is not recommended.
DO NOT use on plasticized vinyls.

STORAGE:

Keep adhesive container closed tightly when not in use.
Store closed, lined containers where temperature will be between 50°F and 80°F
Product should not be stored in direct sunlight.
Product should not be used after being frozen.

Product is not freeze/thaw stable. Protect from freezing.