



Adhesive Options for Application to NewWood Panel Face

NewWood has a low density polyethylene surface that makes it durable, virtually waterproof, and resistant to scuffing. Those very properties, however, require specific types of adhesives to attach other materials to NewWood. Manufacturers and NewWood have identified the following adhesive products and types of bonding agents that will form a good bond to NewWood.

- Liquid Nails by Akzo Nobel Paints LLC
- PL Premium Advanced by Henkel Corporation
- Gorilla Glue by Gorilla Glue Company
- Roo Eco-Clear, Roo-Super Bond, and Roo Clear from Roo Products Inc.
- Armstrong S-240 High Performance Epoxy Flooring Adhesive from Armstrong Commercial Flooring
- Armstrong S-235 Premium Sheet Flooring Adhesive from Armstrong Commercial Flooring
- Mapei Ultrabond Eco 360 from Mapei Adhesives and Sealants
- OSI ProSeries Latex FRP-555 from OSI
- Henry Multipurpose Construction Adhesive 317 from WW Henry
- 3M's Hi-Strength 90 Spray Adhesive
- Loctite U-05FL, a two-component urethane adhesive by Henkel
- Loctite 3034, an acrylic adhesive by Henkel
- Loctite Power Grab, a latex all-purpose construction construction adhesive by Henkel

There are classes of adhesives that can bond to the polyethylene content of NewWood.

Thermoplastic adhesives do not require adding heat to get the surfaces to bond. Two basic types of thermoplastic adhesives will work: cyanoacrylate (which does not require air to cure) and saturated polyesters combined with isocyanate catalysts. They should cure at room temperature and can be accelerated for solvent evaporation and press curing at 100 to 154 degrees Fahrenheit.

Adhesives which use Resin Acids help etch into the NewWood surface to improve the mechanical bond between NewWood and other materials. Organic solvents like Benzene, Alkenes (Ethylene), Cyclohexane when in a formulated adhesive help induce both a mechanical and a chemical bond to the NewWood surface.

USES

Double Sided Tape – there are many types of seam-sealing tapes or doublesided foam tapes that make a permanent adhesive bond for polyethylene surfaces such as NewWood. "Killer Red Tape" made by Ridout Plastics is a thin 0.015" thick acrylic adhesive transfer tape perfect for smooth surface applications. Thicker tape is available such as the line of 3M VHB tapes.

Infrared, Ultraviolet and Hot Air Bonding – the polyethylene content in NewWood can bond to other polyolefin-based surfaces, such as plastic sheeting or any of the many polyethylene composites, when heated to a melt temperature.