



TECHNICAL DATA SHEET

LOCTITE
POWER GRAB®
HEAVY DUTY
 Interior / Exterior Construction Adhesive

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DESCRIPTION:

Loctite® PowerGrab® Heavy Duty Interior / Exterior Construction Adhesive is a premium quality, high strength, gap-filling adhesive for both indoor and outdoor projects. It has an extremely high tack, which eliminates the need for nails and screws in many DIY and repair jobs. Loctite® PowerGrab® Heavy Duty is weather resistant and paintable. The adhesive has a very low odor, and requires only soap and water to clean up uncured adhesive. This makes it safe, easy to use and environmentally friendly. Loctite® PowerGrab® Heavy Duty is also third party GREENGUARD® Indoor Air Quality Certified and GREENGUARD® Certified for Children and Schools.

RECOMMENDED FOR:

Bonds wood, plywood, pressure-treated lumber, aluminum, cork, foam board, ceramics, plaster, brick, concrete, chip board, PVC (rigid plastic), polystyrene and polyurethane foam coverings. Ideal for bonding of wood decking to joists, fencing and siding.

NOT RECOMMENDED FOR:

- Garden walls, retaining walls or landscaping projects.
- Mirrors and metals that will corrode.
- Natural marble (causes staining).
- Continuously wet areas or water immersion and applications exposed to hydrostatic pressure.
- Polyethylene, polypropylene, Nylon™ or Teflon™.
- Cement board (Durock™)

FEATURES & BENEFITS:

Feature	Benefits
Easy cleanup with water (uncured adhesive).....	Eliminates the use of chemicals
Water-based.....	Low odor, non-toxic
High grab.....	Minimizes nailing and bracing requirements
Water resistant.....	Ideal for humid areas
Weather resistant.....	Long outdoor life
Environmentally Friendly & Third party certified.....	GREENGUARD® Indoor Air Quality Certified GREENGUARD® Certified for Children & Schools

Item #	Package	Size
1363134	Plastic Cartridge	10 fl. oz.
1365863	Paper Cartridge	28 fl. oz.

COVERAGE:

For a 10 fl. oz. cartridge:

- A ¼" (6 mm) bead extrudes approximately 30.6 ft (9.35 m).
- A 3/8" (9.5 mm) bead extrudes approximately 13.6 ft. (4.1 m).

For a 28 fl. oz. cartridge:

- A ¼" (6 mm) bead extrudes approximately 85.8 ft (26.1 m).
- A 3/8" (9.5 mm) bead extrudes approximately 38.1 ft. (11.6 m).

DIRECTIONS:

Tools Typically Required:

Utility knife, caulking gun.

Safety Precautions:

Wash hands after use.

Preparation:

For best results, the temperature of the adhesive, the surfaces and the working area must be above 57°F (14°C). One surface must be porous. Surfaces must be clean, dry and free of grease, dust and other contaminants. To obtain maximum adhesion, surfaces should be flat to provide adequate contact. Painted surfaces must be well cured and free of loose paint. Sand glossy surfaces to a dull finish. Pre-fit all materials prior to applying adhesive. Cut the tip off the cartridge nozzle to desired bead size.

Application:

Apply a continuous bead to one of the surfaces then press material firmly into place within 20 minutes. Repositioning time is approximately 15 minutes, depending on bead size. For decks, apply a continuous bead on every joist to increase strength and prevent squeaking. Nail or screw planks at every joist. Pre-drill nail holes to prevent wood splits. For larger areas such as panels, apply adhesive around the perimeter 2" (5 cm) in from the edge and vertically every 12" (30 cm). Alternatively apply a continuous bead to all furring strips, studs and top and bottom plates. When applying materials to a vertical surface, the maximum vertical load the adhesive is safely rated for on a porous substrate is 20 lbs/ft² (10 g/cm²) of bond area. Do not use in outdoor applications if rain is forecasted within 24 hours of application or protect work area from rain. Full strength and water resistance develops after 7 days.

Clean-up

Clean tools and adhesive residue immediately with soapy water. Cured adhesive may be carefully cut away with a sharp-edged tool.

STORAGE AND DISPOSAL

For best results, store above freezing. Take unwanted product to an approved household hazardous waste transfer facility, or allow product to harden by spreading on discardable surface. Hardened material may be disposed of with trash.

LABEL PRECAUTIONS

CAUTION: Avoid eye contact. For eye contact, flush with water for 15 minutes and call a physician. Keep out of the reach of children.

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	White	<u>Application Temperature:</u>	Apply and cure above 57°F (14°C)
<u>Appearance:</u>	Thick paste	<u>Odor:</u>	Minimal
<u>Base:</u>	Synthetic latex	<u>Repositioning Time:</u>	15 minutes, depending on bead size
<u>Specific Gravity:</u>	1.31	<u>Open Time:</u>	20 minutes @ 77°F (25°C)
<u>pH:</u>	8.2	<u>Dry Time:</u>	
<u>% Solids:</u>	65%	Initial Dry Time	24 hours @ 77°F (25°C) and 50% RH
<u>Viscosity:</u>	5190 Mcps @ 1 rpm	Full Cure	7 days
<u>Flashpoint:</u>	> 203°F (95°C)	<u>Extrusion Rate:</u>	2750 g/minute
		<u>Initial Tack:</u>	25.5 g/cm ²

Typical Cured Performance Properties

<u>Color:</u>	White
<u>Cured Form:</u>	Non-flammable solid
<u>Service Temperature:</u>	0°F (-18°C) to 122°F (50°C)
<u>Chemical Resistance:</u>	Resistant to gasoline, oils, weak alkalis and acids.
<u>Paintable:</u>	Yes
<u>Sandable:</u>	Yes, with coarse sandpaper
<u>Water Resistance:</u>	Yes (after 7 days or when fully cured)
<u>Specifications:</u>	Meets or exceeds AFG-01, ASTM D3498 and ASTM C557
<u>Bond Strength:</u>	See below

Tested by an Independent Laboratory

Using ASTM D-3498 test method	Shear Strength (psi)
<u>Wet Lumber</u>	
On Douglas Fir	495
On Southern Yellow Pine	798
<u>Frozen Lumber</u>	
On Douglas Fir	144
On Southern Yellow Pine	169
<u>Dry Lumber</u>	
On Douglas Fir	760
<u>Gap Filling</u>	
On Douglas Fir	583
<u>Moisture Resistance</u>	
On Douglas Fir	625
<u>Oxidation Resistance</u>	100% Pass

Using APA AFG-01 test method	Shear Strength (lbs)*
<u>Test A (Wet Lumber)</u>	724
<u>Test C (Frozen Lumber)</u>	308
<u>Test C (Dry Lumber)</u>	1012
<u>Gap Filling</u>	787
Moisture Resistance:	-
<u>Shear Strength</u>	555
<u>Delamination</u>	None

* Bond area = 1.5 in², 1 mm gap.