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TECHNICAL DATA SHEET

POWER GRAB® CLEAR HEAVY DUTY
Exterior Construction Adhesive

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Item #	Package	Size
1589157	Plastic Cartridge	9 fl. oz.
1589156	Plastic Cartridge	9 fl. oz.

DESCRIPTION

Loctite® Power Grab® Clear Heavy Duty 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® Power Grab® 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® Power Grab® 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 covings. 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® / polytetrafluoroethylene (PTFE)
- Cement board (Durock®)

FEATURES & BENEFITS:

Feature	Benefits
Dries Clear……	Invisible bond line
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

COVERAGE

For a 9 fl. oz. cartridge:
A ¼" (6 mm) bead extrudes approximately 28 ft (8.5 m).
A 3/8" (9.5 mm) bead extrudes approximately 12 ft. (3.7 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 50°F (10°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:
Product applies white then dries clear. 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 approx. 2" (5 cm) in from the edge and vertically every 6" (15 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/ft^2 (10 g/cm^2) 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! MAY CAUSE EYE AND SKIN IRRITATION.

CAUTION: Contains aliphatic hydrocarbon. Avoid eye and skin contact. Do not take internally. FIRST AID: For eye contact, flush with water for 15 minutes and call a physician. For skin contact, wash thoroughly with soap and water. If swallowed, call physician or Poison Control Center. **KEEP OUT OF REACH OF CHILDREN.**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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	
Color:	White (dries clear)	Application Temperature:	Apply and cure above 50°F (10°C)
Appearance:	Thick paste	Odor:	Minimal
Base:	Synthetic latex	Repositioning Time:	15 minutes, depending on bead size
Specific Gravity:	1.03-1.07	Open Time:	60 minutes @ 77°F (25°C)
pH:	7 to 9	Dry Time:	
		Initial Dry Time	24 hours @ 77°F (25°C) and 50% RH
% Solids:	50%	Full Cure	7 to 14 days
Viscosity:	850 Mcps @ 5 rpm	Initial Tack:	25 g/cm^2
Flashpoint:	> 200°F (93°C)		
VOC Content:	< 0.5% by weight (22 g/L calculated)		

Shelf Life:	24 months from date of manufacture (unopened)
Lot Code Explanation:	YYDDD YY = Last two digits in year of manufacture
(Lot code stamped on bottom edge of cartridge body near plunger)	DDD = Day of manufacture based on 365 days in a year For example: 13061 = 61st day of 2013 = March 2, 2013

Typical Cured Performance Properties

Color:	Clear
Cured Form:	Non-flammable solid
Service Temperature:	0°F (-18°C) to 122°F (50°C)
Paintable:	Yes
Sandable:	No
Water Resistance:	Yes (when fully cured)
Shear Strength (ASTM D 3498):	
Wet Lumber:	204 psi (1.41 N/mm²) (Requirement = 150 psi (1.03 N/mm²))
Frozen Lumber:	150 psi (1.03 N/mm²) (Requirement = 100 psi (0.69 N/mm²))
Dry Lumber:	269 psi (1.85 N/mm²) (Requirement = 150 psi (1.03 N/mm²))
Gap Filling:	238 psi (1.64 N/mm²) (Requirement = 100 psi (0.69 N/mm²))
Moisture Resistance:	223 psi (1.54 N/mm²) (Requirement = 150 psi (1.03 N/mm²)) No delamination
Durability:	100% Pass
Specifications:	Meets or exceeds the performance requirements of: • ASTM D3498 • AFG-01 • ASTM C557