LOCTITE® Industrial Power Grab®

November 2008

PRODUCT DESCRIPTION

LOCTITE® Industrial Power Grab® provides the following product characteristics:

Technology	Acrylic
Chemical Type	Synthetic Latex
Appearance	White thick paste
Appearance	Smooth, no lumps, no air[LMS]
Odor	Low
Components	One component - requires no mixing
Cure	Room temperature cure
pH	8.2
Solids Content	65%
Application	Industrial maintenance
Application Temperature	≥14 °C
Specific Benefit	• Easy cleanup with water (uncured adhesive) • High grab • Water and Weather Resistant • Water-based

LOCTITE® Industrial Power Grab® 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 repair jobs. LOCTITE® Industrial Power Grab® is weather resistant and is paintable. The Adhesive has a very low odor, and requires only soap and water to clean up making the product safe, easy to use and environmentally friendly. Typical applications for LOCTITE® Industrial Power Grab® are Bonding 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.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Density @ 25 °C, g/ml	1.28 to 1.32[LMS]
Extrusion Rate, g/min	2,750
Initial Tack, g/cm²	24 to 30[LMS]
Coverage	10.1 fl. oz. tube will extrude approx. 9.5 m of a 6 mm diameter bead

Flash Point - See MSDS

TYPICAL CURING PERFORMANCE

Curing Properties

Working Time @ 25 °C, minutes	20
Repositioning Time, minutes	15
Initial Dry time @ 25 °C / 50% RH, hours	24
Full Cure Time @ 25 °C, days	7

TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

Lap Shear Strength, ISO 4587:

Wood (Fir), (Wet)	N/mm²	3
	(psi)	(495)
Wood (Pine), (Wet)	N/mm²	5.5
	(psi)	(800)
Wood (Fir), (Frozen)	N/mm²	1
	(psi)	(145)
Wood (Pine), (Frozen)	N/mm²	1.2
	(psi)	(170)
Wood (Fir), (Dry)	N/mm²	5
	(psi)	(760)
Wood (Fir), (gap filling)	N/mm²	4
	(psi)	(580)
Wood (Fir), (moisture resistance)	N/mm²	4
	(psi)	(625)

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Directions for use:

Preparation

1. For Best results, the adhesive, the sufaces and the working area must be ≥14°C.
2. One surface must be porous, and surfaces should be flat to provide adequate contact.
3. Surfaces must be clean, dry and free of paint, grease, dust and other contaminants.

Application

1. Remove cap and cut the tip off the cartridge nozzle just above the threads to desired bead size.
2. Apply a continuous bead to one of the surfaces then press material firmly into place within 20 minutes.
3. Repositioning time is approximately 15 minutes.
4. For large area applications such as panels, apply adhesive around the perimeter 5 cm in from the edge and vertically every 30 cm.
5. Alternatively apply a continuous bead to all furring strips, studs and top and bottom plates.
6. When applying materials to a vertical surface, the maximum vertical load the adhesive is safely rated for on a porous substrate is 10 g/cm² of bond area.
7. Do not use in outdoor applications if rain is forecasted within 24 hours of application or protect work area from rain.
8. Full strength and water resistance develops after 7 days.

Clean up

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

Loctite Material Specification[LMS]

LMS dated June 06, 2008. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Storage

Store product in the unopened container in a dry location. Material removed from containers may be contaminated during use. Do not return liquid to original container. Storage information may be indicated on the product container labeling. **Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties**. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those recommended. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Note

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.0