

LORD® 810 Low Read-Through (LRT) Acrylic Adhesive with LORD Accelerator 20

Description

LORD® 810 Low Read-Through (LRT) acrylic adhesive when cured with LORD Accelerator 20 creates a flexible adhesive system for bonding metals, such as aluminum, galvanized steel and CRS, and engineered plastics, such as PC-ABS and ASA. LORD 810 adhesive in combination with LORD Accelerator 20 delivers fast cure speed and strong bonding with minimal bondline read-through (BLRT).

LORD Accelerator 20 allows precise control of the adhesive bondline thickness due to its content of glass beads. For further detailed information, refer to the LORD Accelerator 20 data sheet.

Features and Benefits

Aesthetics – bonds thin and flexible substrates with little to no bondline read-through.

Convenient – requires little or no substrate preparation for bonding metals and plastics.

Non-Sag – remains in position when applied on vertical or overhead surfaces, allowing for greater process flexibility.

Environmentally Resistant – resists dilute acids, alkalis, solvents, greases, oils and moisture; provides excellent resistance to UV exposure and weathering.

Application

Surface Preparation – Remove grease, loose contamination or poorly adhering oxides from metal surfaces. Normal amounts of mill oils and drawing compounds usually do not present a problem in adhesion. Most plastics require a simple cleaning before bonding. Some may require abrading for optimum performance.

Mixing – Mix LORD 810 adhesive with LORD Accelerator 20 at a ratio of 2:1, adhesive to accelerator, by volume. Even color distribution visually indicates a thorough mix. Once mixed, the adhesive system cures rapidly.

Applying – Apply the mixed adhesive to bond surfaces using a handheld cartridge or automatic meter/mix/dispense equipment. Contact your LORD representative if assistance is needed using this equipment.

Curing – Complete cure requires 24 hours at room temperature. Mating surfaces must be held in contact during the entire curing process. Cure rate can be accelerated by applying modest heat [$<150^{\circ}\text{F}$ ($<66^{\circ}\text{C}$)].

Typical Properties*

Appearance	Black Paste
Viscosity, cP @ 77°F (25°C) Brookfield RV	40,000 - 80,000
Density	
lb/gal	7.7 - 8.0
(kg/m ³)	(920 - 960)
Flash Point, °F (°C)	59 (15)

*Data is typical and not to be used for specification purposes.

LORD TECHNICAL DATA

Cleanup – Clean equipment and tools prior to the adhesive cure with solvents such as isopropyl alcohol, acetone or methyl ethyl ketone (MEK). Once adhesive is cured, heat the adhesive to 400°F (204°C) or above to soften the adhesive. This allows the parts to be separated and the adhesive to be more easily removed.

Shelf Life/Storage

Shelf life is six months when stored below 77°F (25°C) in original, unopened container. Storage temperatures of 40-60°F (4-15°C) are recommended. If stored cold, allow product to return to room temperature before using. Protect from exposure to ultraviolet light.

LORD 810 adhesive is flammable. Do not store or use near heat, sparks or open flame.

Cautionary Information

Before using this or any LORD product, refer to the Material Safety Data Sheet (MSDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Typical Properties* of Adhesive Mixed with Recommended Accelerator

Mix Ratio, Adhesive to Accelerator

by Weight 1.1:1

by Volume 2:1

Solids Content, % —

Working Time, min @ 70°F (21°C) 8-12

Time to Handling Strength, min @ 70°F (21°C) 20-25

Mixed Appearance Grey Paste

Cured Appearance Grey

*Data is typical and not to be used for specification purposes.

Values stated in this technical data sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

Information provided herein is based upon tests believed to be reliable. In as much as LORD Corporation has no control over the manner in which others may use this information, it does not guarantee the results to be obtained. In addition, LORD Corporation does not guarantee the performance of the product or the results obtained from the use of the product or this information where the product has been repackaged by any third party, including but not limited to any product end-user. Nor does the company make any express or implied warranty of merchantability or fitness for a particular purpose concerning the effects or results of such use.

LORD and "Ask Us How" are trademarks of LORD Corporation or one of its subsidiaries.

LORD provides valuable expertise in adhesives and coatings, vibration and motion control, and magnetically responsive technologies. Our people work in collaboration with our customers to help them increase the value of their products. Innovative and responsive in an ever-changing marketplace, we are focused on providing solutions for our customers worldwide ... Ask Us How.

LORD Corporation World Headquarters

111 Lord Drive
Cary, NC 27511-7923
USA

Customer Support Center (in United States & Canada)

+1 877 ASK LORD (275 5673)

www.lord.com

For a listing of our worldwide locations, visit LORD.com.

©2014 LORD Corporation OD DS4190 (Rev.0 10/14)

LORD
AskUsHow™

Hisco®
Fast Friendly Service

877.447.2650
www.hisco.com