

Technical Data Sheet

LR841 – Medium Strength Medium Viscosity Bearing Fit Retainer

Characteristics

- Medium viscosity liquid
- Medium strength
- UV fluorescent for inspection purposes
- One-component
- Bond strength can exceed that of substrate

Recommended For

Ideal for bonding cylindrical parts where disassembly may be required in the future

Description

Glassbond Anaerobic Adhesive LR841 is a yellow, medium strength, medium viscosity retainer. Suitable for bonding cylindrical parts and also for the mounting/retention of bearings/housings onto shafts and into housings. It is detectable by UV light which makes it ideal for inspection purposes. Cures in the absence of air, between close fitting parts where metal ions are present. Prevents leaking and loosening caused by shock and vibration.

Physical properties

Appearance	Yellow liquid
Viscosity	400 – 800 cP
Service Temperature	-54 to 150°C

Bonding Speed

Fixture Time	<15 min
Full Cure	24hr

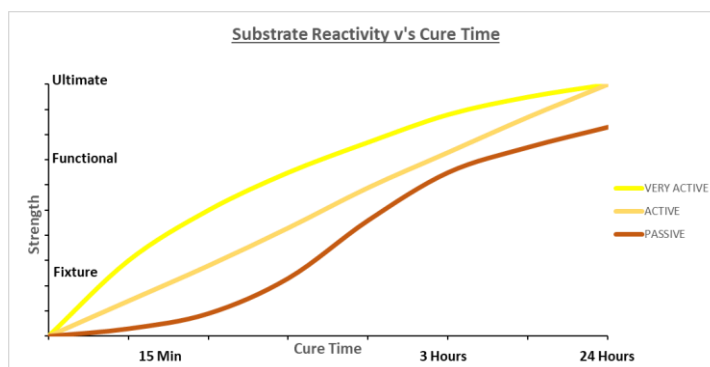
Time

Other properties

Gap Fill	0.15mm
Shear strength	>7N/mm ²

Application/Instructions

PREPARATION – For optimum performance ensure the surfaces to be bonded are clean and free from dirt or grease. Where washing systems are used to clean the surfaces before bonding, it is important to check the compatibility of the washing solution with the adhesive. If the material to be bonded is an inactive metal, consider using activator prior to use.



Substrate selection is key to performance (graph is for guidance only).

Physical properties were determined on specimens prepared under laboratory conditions. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation. Data should not be used for specification purposes.

APPLICATION – Shake the product thoroughly prior to use. Apply several drops to the surfaces to be bonded. Assemble and tighten as necessary (see below). To prevent clogging of the nozzle, do not let the tip touch the metal surface during application.

SLIP FITTED PARTS – Apply adhesive around the leading edge of the pin and inside the collar. Rotate throughout assembly to ensure good coverage.

PRESS FITTED PARTS – Apply adhesive to both mating surfaces and assemble at high pressure.

SHRINK FITTED PARTS – Apply the adhesive on to the part in an even, smooth layer. Coat the pin when heating for assembly. The collar should be coated if the pin needs to be cooled for assembly. The material should be applied to the cooled part if both heating and cooling are required. Cooled parts should be kept free of condensation.

Setting/Curing

There may be a difference in fixture speed and strength dependent upon the substrate. For example, full strength will be achieved more rapidly with materials such as mild steel and brass when compared to passive materials such as stainless steel or zinc dichromate. Fixture times will also be longer at lower temperatures. It is possible to accelerate the fixture time by heating the assembled parts or by using an activator. **NB** the use of an activator may reduce bond strength (possibly by 30%). Overall maximum strength may take up to 24 hours to achieve. See table below for comparative substrate reactivity.

CLASSIFICATION	SUBSTRATE
VERY ACTIVE	Brass, Copper
ACTIVE	Mild Steel, Bronze, Iron
PASSIVE	High Alloy Steel, Aluminium, Stainless Steel, Oxide Films, Nickel, Silver, Zinc, Gold, Chromate Films, Plastics, Ceramics, Anodic Coatings

Fixture speed is also affected by bond gap size. A larger gap between threads/parts can result in longer fixture time.

Cleaning

To remove cured product, use a combination of solvent and abrasion, such as a wire brush.

Packaging

This material is supplied in 10ml, 50ml and 250ml HDPE packaging. Please contact Glassbond's sales department for further details (sales@glassbond.co.uk).

Shelf Life

Glassbond LR841 has a shelf life of 12 months when stored in unopened, tightly sealed containers in cool conditions, away from direct sunlight. Ideal storage temperature is between 8°C and 21°C. If there is doubt as to the quality of the material, consult Glassbond.

Caution

Consult the Material Safety Data Sheets and container label caution statements for any hazards in handling this material. Not to be used in oxygen rich systems or in the presence of other strong oxidising materials.

Warranty

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. Users shall determine the suitability of the product for intended application before using.