

TECHNICAL DATA SHEET FOR LOCKFAST EPOXY STICK ALUMINIUM

Description

Lockfast Epoxy Stick Aluminium is a hand-mixable, room-temperature curing, epoxy putty stick specifically formulated to bond and repair materials that will be exposed to high temperatures in industrial maintenance applications. It bonds tenaciously to metals and cures tough and hard, with nearly no shrinkage. This industrial strength product far outperforms conventional epoxy putties at high temperatures in lap shear tensile strength testing. Each stick contains pre-measured portions of base and activator. No measuring or mixing tools are needed – just cut, mix and apply. When mixed to a uniform colour, the combined materials form a polymer compound that can be moulded and shaped into a variety of forms and repairs.

Basic Uses

Lockfast Epoxy Stick Aluminium can be used as an adhesive/ sealant in industrial and home maintenance applications. Use it rebuild machine parts and castings; mend wheels, radiators and worn air conditioner cases; repair leaking pipes and tanks; seal leaks, cracks, and holes in aluminum siding, storm windows, and storm doors; repair leaks in aluminum boats; seal joints in aluminum rain gutters; and fill dents and dings in recreational vehicles.

Packaging

Lockfast Epoxy Stick Aluminium is supplied in a stick form wrapped in a clear release film. The stick has a nominal 22mm diameter and is available in various lengths. Packaged in a reusable clear plastic tube with a plastic friction top.

Shelf Life

Lockfast Epoxy Stick Aluminium should be stored out of direct sunlight in dry frost free conditions of temperatures between 5°C and 20°C. Under such conditions shelf life will be 24 months from the date of manufacture. One year minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

Benefits

- Suitable for interior and exterior use.
- Contains no solvents or VOCs.
- Won't shrink or pull away.
- Non-flammable; releases no noxious fumes.

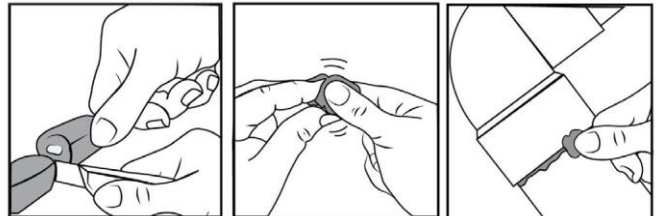
Application limitations

- Does not adhere to polyethylene, polypropylene, or PTFE.
- Not intended for use in structural applications.

Directions of use

1. In order to achieve optimum adhesion, surfaces should be cleaned free of grease, dirt, paint etc., and preferably should be dry. To ensure a good bond, abrade both surfaces followed by additional cleaning.
2. Twist or cut off the required amount of Lockfast Epoxy Stick Aluminium.

3. If the material is cold mixing may be difficult and warming to room temperature is advised.
4. To mix, knead the putty with the fingers for at least one minute or until it is a uniform colour.
5. Press the putty onto the prepared surface within 2 minutes of mixing.
 - 6.1. If being used to repair a slowly leaking area work the putty forcefully into the surface and apply pressure for at least 20 minutes, until adhesion begins to take effect.
 - 6.2. If it is being used as a filler/repair material force the putty into the area to be filled, and shape and strike off any excess with a tool wetted with clean water.
7. For a smooth appearance rub with water or a damp cloth within the working life of the putty.
8. After 5-10 minutes the epoxy putty will harden like metal and start to form a bond. After 60 minutes the material will be cured sufficiently to allow a repaired water system to be put back into service. Full cure will be achieved after 24 hours.



Health precautions

- Contains Epoxy Resin. Epoxies are skin/eye irritants and known sensitizers. Direct product contact may cause an allergic reaction in some individuals. Avoid skin/eye contact. Wear impermeable gloves when mixing or handling uncured product.
- Inhalation of dust may be harmful. Avoid inhalation of dust. Wear dust mask and protective eyewear when sanding cured product.
- Ingestion of product may be harmful. Avoid ingestion.
- Turn off power when doing electrical repairs.
- KEEP OUT OF THE REACH OF CHILDREN.

Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable and that in the light of our continual research and development programme the information relating to each product has not been superseded.

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| Properties | Results | Test Methods |
|---|--|--------------------------|
| Work life | 5 - 7 minutes @ 24°C | |
| Shore D Hardness | 80 | ASTM D2240 |
| Lap shear strength on Steel and Aluminium | 4.2N/mm ² 3.5N/mm ² | ASTM D1002 ASTM D1002 |
| Temperature Limitations | 120°C Continuous 150°C intermittent | |
| Dielectric strength | 11,800 V/mm | ASTM D149 |
| Compressive strength | 55N/mm ² | ASTM D695 |

Chemical resistance:

Resistant to hydrocarbons, Ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids and bases.

*Typical properties are for information only, not for purposes of specification. The data above represents product performance in ideal laboratory conditions. Individual users' experience may vary depending on application conditions.