



EPS842 Aluminium Epoxy Stick

Engineering Adhesives

DESCRIPTION

EPS842 Aluminium Epoxy Stick is a, speciality epoxy putty that mixes in one minute to provide fast, permanent repairs to most aluminium surfaces.

When applying EPS842 Aluminium Epoxy Stick it is necessary to work the material forcefully into the surface and apply pressure until adhesion begins to take effect. The lower the temperature the longer it takes to cure.

EPS842 Aluminium Epoxy Stick comes in an easy to use hand kneadable stick with a putty like consistency, allowing for very easy mixing and application, with no tools required.

The mixed epoxy turns from a silvery colour to "Alloy" upon curing and will not yellow upon exposure to UV light. After final cure, EPS842 Aluminium Epoxy Stick may be drilled, sawed, tapped, filed, sanded and painted and allows patching in areas where welding is impossible.

Physical Properties	
Resin:	Epoxide
Unmixed Colour:	Silver
Mixed Colour:	Aluminium
Electrical Resistance:	30,000 megahoms-cm
Dielectric Strength (Steel)	300 Volts/mil
Shrinkage	<1%
Non-Volatile Content	100%
Temp Range:	120°C continuous 150°C intermittent
Open Time:	3.5 minutes
Cured Performance	
Initial Cure:	10-12 minutes
Full Cure Time:	24 hours
Lap Shear Tensile Strength:	
On aluminium	3.5MPa
On steel	4.2MPa
Shore D hardness:	80
Compressive Strength:	55MPa

APPLICATIONS

After correct mixing, EPS842 Aluminium Epoxy Stick moulds like clay may be used in many Industrial and Home Maintenance applications to permanently patch dents, scratches, cuts, gouges and holes in items such as housings and all types of repairs to mouldings and injection type shapes.

EPS842 Aluminium Epoxy stick is ideal for making emergency repairs to reform, rebuild, repair and patch anything made out of aluminium. Applications include but are not limited to, refrigeration units, air Conditioning units, machine parts, roofing, siding, flagpoles, shelving, platforms, walkways, campers, road vehicles, canopies, gutters, truck and trailer bodies, wheels, manifolds, stripped threads, marine hardware and casings.



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TECHNICAL DATA SHEET

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DIRECTIONS FOR USE

We recommend the use of impermeable gloves when mixing.

In order to achieve optimum adhesion, surface should be clean and free of grease and dirt.

To Mix, twist or cut off required amount and knead with fingers to form a uniformed colour. If mixing is difficult, warm to room temperature.

Apply to the surface to be repaired (within 2 minutes of mixing). Force into any cracks or holes to be filled and remove any excess material, The mixed epoxy does not exhibit high bond strength at this point.

Work the material forcefully into the surface and apply pressure until adhesion begins to take effect. For a smooth appearance of the cured compound, hand rub with water or a damp cloth prior to hardening. Remove excess material before hardening begins.

After 10 minutes the epoxy will harden like metal and start to form a firm bond. After just 60 minutes EPS842 is functional and can be drilled, sawed, carved, sanded, stained or painted.

LIMITATIONS

Does not bond to polyethylene, polypropylene or P.T.F.E.
Not suitable for structural applications.

CHEMICAL RESISTANCE

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

PACKAGING

7" Lengths weighing approximately 114g
Individually packaged in a reusable clear plastic tube and plastic end cap.

STORAGE & SHELF LIFE

Store in a cool area out of direct sunlight
Shelf Life: 24 months @ 24°C

Any unused portion of stick will remain stable for up to two years if protected from direct contact with the air, and stored in cool conditions.

HEALTH & SAFETY

IRRITANT: Contains epoxy resin and may cause skin irritation in sensitive individuals. Unnecessary skin contact should therefore be avoided. If skin contact occurs, wash with a proprietary hand cleaner, followed by soap and water. In case of eye contact seek medical attention. When fully cured, the product can be considered non-toxic. Always keep EPS842 Aluminium Epoxy Stick away from foodstuffs and food utensils.

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