

# EPS846 Steel Epoxy Stick

Engineering Adhesives

## DESCRIPTION

EPS846 Steel Epoxy Stick is a speciality non-rusting Steel reinforced Epoxy Putty that mixes in one minute to provide permanent repairs to items made of ferrous metals.

EPS846 Steel 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.

<b>Physical Properties</b>	
Resin:	Epoxide
Mixed Colour:	Metallic Grey
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
<b>Cured Performance</b>	
Initial Cure:	1 hour
Full Cure Time:	24 hours
Lap Shear Tensile Strength:	
On steel	6.2MPa
Shore D hardness:	80
Compressive Strength:	55MPa

## APPLICATIONS

After correct mixing, EPS846 Steel Epoxy Stick moulds like clay and may be used in many Industrial and Home Maintenance applications, including repair of iron pipes, tanks, tools and equipment, repairs to moulds, patterns and castings, repair cracked castings, repairs to down spouts and gutters, light fixture installations, repairs to duct-work, anchor bolts, as well as many other varied uses.

## DIRECTIONS FOR USE

We recommend the use of impermeable gloves when mixing.

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

To Mix, twist or cut off required amount and, knead with fingers to form a uniform 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.

When applying to a damp, wet or slowly leaking area, 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.



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After 10 minutes the Epoxy will harden like metal and start to form a firm bond. After just 60 minutes EPS846 Steel Epoxy Stick is functional and can be drilled, sawed, carved, sanded 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 @ 20°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:** EPS846 Steel Epoxy Stick 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 washing with soap and water. In case of eye contact, flush with clean water for at least 15 minutes, and then seek medical attention.

