

# VES1 - Steel Epoxy Putty Stick

REF: TDS076

Fast Acting, Steel Repair Putty

## Description

**Steel-Stick** is a hand kneadable, non-rusting, steel reinforced epoxy putty that mixes in one minute to provide fast, permanent repairs to items made of ferrous and aluminium metals. It comes in a handy rod form with the curing agent encapsulated in the contrasting colour base material. Its putty-like consistency eliminates drips and runs providing "no mess" application with no tools required for use. **Steel-Stick** is black in colour after cure.

## General Characteristics

<b>Resin</b>	Epoxide
<b>Chemical Resistance</b>	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases
<b>Electrical Resistance</b>	30,000 mega Ohms
<b>Dielectric Strength</b>	300 Volts/mil
<b>Shrinkage</b>	< 1%
<b>Non-volatile content</b>	100%
<b>Shelf Life</b>	6 months minimum stored at 25°C
<b>Compressive strength</b>	84N/mm(2) (12,000 psi)
<b>Max. Temperature Resistance</b>	120°C continuous 150°C intermittent

## Performance Characteristics

<b>Initial Cure</b>	1-hour max.
<b>Full Cure Time</b>	24 hours
<b>Lap Shear Tensile Strength (Steel)</b>	6.2 N/mm(2)
<b>Shore D Hardness (Full Cure 24hrs)</b>	80
<b>Opening Time</b>	3.5 minutes

## **Steel Stick - Cont.**

### **How to Use**

*In order to achieve optimum adhesion, surfaces should be cleaned free of grease or dirt. Scuffing or sanding the surface prior to cleaning helps ensure a good bond.*

*Mixing: Twist or cut off required amount. To mix, knead with fingers to a uniform colour. If mixing is difficult, warm **Steel-Stick** to room temperature or slightly above. Apply to the surface to be repaired (within two minutes of mixing). The mixed epoxy does not exhibit high bond strength at this point, but appears to be merely lying on the surface. Force into any cracks or holes to be filled and strike off excess material, preferably with tool wetted with clean water. When applying to 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. After just 30 minutes **Steel-Stick** is completely cured and can be drilled, sawn, carved, sanded, stained, or painted.*

### **Storage**

*Store in cool conditions, preferably away from direct sunlight or excessive heat. Shelf life at least 6 months at 25°C.*

### **Health and Safety**

***Steel-Stick** contains epoxy resins and hardeners, which can cause skin irritation in sensitive individuals. It is therefore recommended that the hands are washed immediately after use, using either a proprietary hand cleaner such as Swarfega or soap and water. Always keep **Steel-Stick** away from foodstuffs and food utensils.*

***PACK SIZE:** - **Steel-Stick** is packaged in a 180-gram clear plastic reusable tube with a plastic end cap.*

*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, and that the actual conditions of use are suitable.*