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This Information Sheet is for products KIN ESTEEL

TECHNICAL DATA SHEET:

PRODUCT: STEEL STICK - 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 drops and runs providing "no mess" application with no tools required for use. STEEL-STICK is black in colour after cure.

APPLICATIONS:

STEEL-STICK is a mouldable putty for the repair of iron pipes, tanks, tools and equipment; repair stripped threads; forming nuts and bolts in place; repair blow-holes; holding and placement of fixtures and signs; repairs to moulds, patterns and castings; making prototypes; thread locking; repair cracked castings; repairs to down spouts and gutters; light fixture installations, repairs to duct work; anchor bolts; as well as countless other uses. Unused STEEL-STICK will remain stable for years if protected from direct contact with the air.

DIRECTIONS FOR 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 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. After 5-10 minutes the epoxy will

harden like metal and start to form a tenacious bond. After just 30 minutes STEEL-STICK is completely cured and can be drilled, sawn, carved, sanded, stained or painted.

**HEALTH AND SAFETY:**

STEEL-STICK contains epoxy resins and hardeners which can cause skin irritant in sensitive subjects. 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.

C.P.L. Regulations: Hazard; Irritant. Risk Phrases: R36/38, R43. Safety Phrases: S36/37, S38

**PERFORMANCE DATA:**

Working life:	31/2 minutes
Shelf stability:	6 months minimum stored at 25 deg.C
Shore D Hardness: (full cure 24 hrs)	80
Lap Shear Tensile Strength: on Steel	6.2 MN/m <sup>2</sup>
Temperature limitations:	120 deg.C continuous 150 deg. C intermittent
Chemical Resistance:	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases
Electrical Resistance:	30,000 megohms
Dielectric Strength:	300 volts/mil
Shrinkage:	Less than 1%
Non-volatile content:	100%
Compressive strength:	84 MN/m <sup>2</sup> (12.000 psi)

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

**FOR FURTHER INFORMATION:**

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