Jorgensen Laboratories, Inc.
1450 North Van Buren Avenue
Loveland, CO

Product Codes: J751, J751A

24 hour Emergency Telephone:
INFOTRAC: (900) 535-5053

All non-emergency questions may be directed to customer service @ (970) 669-2500 or fax (970) 663-5042

HAZARDOUS INFORMATION

Steel Epoxy Putty Stick
Last Acting, Steel Repair Putty

Description
Steel stick is a hard kneadable, non-rusting, steel reinforced epoxy putty that mixes in one minute to provide fast, permanent repair to items made of ferrous and alloy metals. It comes in a handy rod form with the curing gent encapsulated in the resin material. Its putty-like consistency eliminates drips and runs providing "no mess" application with no tools required for use. Steel-stick is steel gray in color after cure.

General Characteristics

Resin
Epoxide

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

Electrical Resistance
30,000 mega Ohms

Dielectric Strength
300 Volts/mil

Shrinkage
<1%

Non-volatile content
100%

Shelf life
6 months minimum stored at 25°C

Compressive strength
84N/mm² (12,000 psi)

Max temperature resistance
120°C continuous
150°C intermittent

Performance Characteristics

Initial Cure
1 hour max

Full Cure Time
24 hours

Gap Shear Tensile Strength (Steel)
6.2N/mm²

shore D Hardness
80

Full Cure 24hrs0
80

Opening Time
3.5 minutes

How to Use
In order to achieve optimum adhesion, surfaces should be clean of grease or dirt. Scuffing or sanding the surface prior to cleaning ensure a good bond.

Mixing: Twist or cut off required amount. To mix, knead with uniform color. If mixing is difficult warm Steel-Stick to room temperature or slightly above. Apply to the surface to be repaired two minutes of mixing.) The mixed epoxy does not exhibit high strength at this point, but appears to be merely lying on the sur into any cracks or holes to be filled and strike off excess material preferably with a tool wetted with clean water. When applying wet or slowly leaking area, work the material forcefully into th and apply pressure until adhesion begins to take effect.

For a smooth appearance of the cured compound hand rub with damp cloth prior to hardening. Remove excess material befor begins. After just 30 minutes Steel-Stick is completely cured a drilled, sawn, carved, sanded, stained or painted.

Storage: Store in cool conditions preferably away from direct excessive heat. Shelf life is at least 6 months at 25°C.

Health and Safety: Steel-Stick contains epoxy resins and harden can cause skin irritation in sensitive individuals. It is therefore recommended that the hands be washed immediately after use, either a proprietary hand cleaner such as Saratoga or soap and Always keep Steel-Stick away from food and utensils.

Pack Size: Steel-Stick is packaged in a 180-gram clear plastic tube with a plastic end cap.

While all reasonable care is taken in compiling technical data the company's products are made without guarantee since the cont use are beyond the control of the company. It is the customer's responsibility to satisfy him that each product is fit for the pur which he intends to use it, and that the actual conditions of use suitable.
Section 1  Preparation and Company identification

Preparation identification:
VES1-Epoxy Steel Stick

Company identification and Telephone Number
Vortex Industrial Products Ltd.
Terry Dicken Industrial Estate
Ellebeck Way
Stokesley
Cleveland
TS 7AB
Tel 01642 713613

Section 2  Composition/information on ingredients

Hazardous Components
Epichlorohydrin 25088-38-6 10%-20%
Bisphenol A
  Index No 603-074-00-8
  EEC-Symbol XI
  Risk phrases: R36/38-43

Section 3  Hazards identification

Irritating to eyes and skin
May cause sensitization by skin contact

Section 4  First Aid Measures

Inhalation:
Not applicable, material does not emit harmful vapors

Skin Contact:
May lead to sensitization. Wash with plenty of soap and water. Do not use organic solvents.

Eye contact:
Irritant may cause superficial burns. Wash immediately with copious amounts of clean water. Seek medical attention immediately

Ingestion:
Rinse mouth out with clean water. If swallowed, drink plenty of water or milk. Do not induce vomiting. Seek medical attention immediately.

This sheet should be shown to emergency services/medical staff.

Section 5  Fire Fighting Measures

Extinguishing Media: Foam/water fog/dry powder/CO2

Odor: Very slight

Solubility in water: In soluble

Section 6  Accidental Release Measures

Personal precautions: Suitable protective clothing (overalls), rubber/plastic-coated gloves, and eye/face protection advised.

Environmental precautions: Inform local authority if material reaches public drains or waterways.

Methods of cleanup: Shovel into suitable closed container

Section 7  Handling and Storage

Handling: Irritant. Sensitizing. Ensure good ventilation. Smoking, eating, drinking and preparation of foodstuffs prohibited where material are stored or handled.
Storage: Store in a cool location away from direct sunlight.

Section 8  Exposure Control / Protection

Respiratory: None required
Hand/Skin: Wash hands after each work period and before eating. Wear rubber or plastic-coated gloves while handling product.
Eye: Safety glasses/goggles or face shield advised especially when working overhead.

Section 9  Physical / Chemical Properties

Appearance: Putty, various colors
Odor: Very slight
Flash Point: >200° C
Solubility in water: Insoluble
Section 10 Stability and Reactivity

Conditions To Avoid: Temperature Extremes

Materials To Avoid: Strong acids, strong oxidizing agents

Hazardous Decomposition products:
May release oxides of carbon and other toxic gases or vapors if burned.

Section 11 Toxicological Information

LD50 Acute oral toxicity in rats: >2000mg/kg
Eye irritant tested in rabbits: possible
Skin irritant tested in rabbits: possible
Skin sensitization in guinea pigs: may cause sensitization by skin contact

Section 12 Ecological Information

Do not allow the material to enter water courses. If water is contaminated inform the relevant authorities immediately.

Section 13 Transportation

Not regulated.

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