

S1010 – Technical Data Sheet



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Description

S1010 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.

S1010 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 to use. **S1010** is black in colour after use.

After proper mixing, **S1010** moulds like clay and may be used in many industrial and home maintenance applications, including repair of iron pipes, tanks, tools and equipment, 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.

The unused portion of **S1010** will remain stable for years if protected from direct contact with the air, in cool conditions.

Properties of Liquid State

Resin	Epoxide
Resistance	Hydrocarbons, ketones, esters, halo-carbons, alcohols, aqueous salt solutions and dilute acids and bases.
Electrical Resistance	30,000 mega Ohms Dielectric
Strength (Steel)	300 Volts/mil
Shrinkage	<1%
Non-volatile content	100%
Shelf life	>6 months @ 25°C

Directions for Use

Mixing

Twist or cut off required amount. To mix, knead with fingers to a uniformed colour. If mixing is difficult, warm to room temperature or slightly above. Apply to the surface to be repaired (within 2 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 a 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.

Hardening

Remove excess material before hardening begins. After 15-20 minutes, the epoxy will harden like metal and start to form a tenacious bond. After just 45 minutes, it is completely cured and can be drilled, sawed, carved, sanded, stained or painted.

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

Cure Performance

Initial cure	1 hour max
Full cure time	24 hours
Lap shear strength (steel)	6.2 N/mm ²
Shore D hardness	80
Compressive strength	84 N/mm ²

Properties

Opening time	3.5 minutes
Max. temperature resistance	120°C continuous 150°C intermittent

Precaution

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 washing with soap and water. In case of eye contact, flush with clean water for at least 15 minutes, then seek medical attention. When fully cured, the product can be considered non-toxic.

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

Please consult the S1010 Health & Safety Data Sheet for statutory regulation information.

Information relating to the products of Bondrite Adhesive Limited is based on tests carried out under laboratory conditions. If any of our products are not used in accordance with our instructions or are used under conditions which vary from our laboratory, they may not perform in accordance with any information provided and Bondrite shall not have any liability in this case. Bondrite will accordingly provide samples of our products, on request and free of charge, for customers to carry out their own tests as to suitability of our product for their purposes and as used in their intended environment.

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