

## S1016 – Technical Data Sheet



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### Description

**S1016** is a resilient epoxy putty used to provide permanent repairs in damp, wet or underwater applications. It may be applied underwater in both salt or fresh water conditions. It bonds to surfaces including metal, concrete, wood, fibreglass, many plastics, glass and more. **S1016** has WRAS approval, meaning it is certified as safe to use on pipes and fittings carrying drinking water.

Suitable for interior or exterior use, it is resistant to water, chemicals, and temperature extremes. Aqua stick contains no solvents or VOC's. It is non-flammable and releases no noxious fumes. It will not shrink or pull away.

**S1016** comes in a handy rod form with the curing agent encapsulated in the base material. Its putty-like consistency eliminates drips and runs, providing "no mess" application with no tools required to use. Aqua stick is white in colour after use. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed, or painted.

The unused portion of **S1016** will remain stable for years if protected from direct contact with the air, in cool conditions.

### Technical Data

<b>Work life</b>	15 -20 minutes
<b>Resistance</b>	Hydrocarbons, ketones, esters, halo-carbons, alcohols, aqueous salt solutions and dilute acids and bases.
<b>Electrical Resistance</b>	30,000 mega Ohms
<b>Lap Shear Strength (Steel)</b>	6.2 MPa
<b>Temperature Limitations</b>	120°C continuous 150°C intermittent
<b>Dielectric strength</b>	300 V/mm
<b>Compressive strength</b>	83 MPa
<b>Approvals</b>	WRAS
<b>Shelf life</b>	18 months @ 5-20°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 5 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. 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 and start to form a bond. After just 60 minutes, the system can be put into service and working strength is

achieved in 2-4 hours. Maximum properties are achieved after 24 hours.

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.

### **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.

### **Please consult the S1016 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.