



# Technical Data Sheet

## Bondloc B2004 Copper Epoxy Stick

### PRODUCT DESCRIPTION

B2004 is a hand-mixable, fast-setting, copper-reinforced epoxy putty that quickly repairs pipes, tanks and vessels made of copper, brass, bronze and other non-ferrous metals. After mixing, it forms a polymer compound that is extremely tough and durable and offers exceptional adhesion. Each handy stick contains pre-measured portions of activator and base throughout no measuring or mixing tools are necessary. The consistency (like modeling clay) eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped as needed before curing begins. After 60 minutes the application can be drilled, sawed, sanded, and painted. Household hot water pipes and vessels can be restored to service after 1 hour. Cured B2004 has the same appearance and texture of metal. Suitable for interior or exterior use, it is resistant to water, chemicals, and temperature extremes. It contains no VOCs or solvents. It's non-flammable and releases no noxious fumes. It won't shrink or pull away. The unused portion stays fresh for future use when stored in its original packaging

### APPLICATIONS

B2004 can be used to repair freeze breaks, leaking household hot waterlines and other plumbing problems. B2004 will seal copper gutters, downspouts, pipes, elbows, joints, sleeves and traps, and will bond to damp, wet and slow leaking surfaces.

### USEFUL HINTS/NOTES

Mixing: Twist or cut off required amount. To mix, knead with fingers to a uniform colour. If mixing is difficult, warm B2004 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. 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 15-20 minutes the epoxy will harden like metal and start to form a tenacious bond. After just 45 minutes B2004 is completely cured and can be drilled, sawed, carved, sanded, stained or painted.

### INSTRUCTIONS FOR USE

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.

### TECHNICAL FEATURES

Resin	Copper
Chemical Resistance	Hydrocarbons, Ketones, esters, halo-carbons, alcohols, aqueous salt solutions, diute acids and bases
Electrical Resistance	30,000 mega Ohms
Dielectric Strength (Steel)	300 Volts/mil
Shrinkage	<1%
Non Volatile Content	100%
Shelf Life	24 months @ 24°C

Bondloc UK Ltd.  
Units 1 & 2  
Bewdley Business Park  
Bewdley, Worcestershire  
DY12 2TZ, UK

+44 (0) 1299 269 269  
sales@bondloc.co.uk

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### CURED PERFORMANCE

Initial Cure	1 hour
Full Cure Time	24 hours
Lap Shear Strength (Steel)	4.5 MPa
Shore D Hardness	80
Compressive Strength	8,000 psi

### PROPERTIES

Opening Time	5 mins
Max Temp Resistance	120°C Continuous 149°C Intermittent

### STORAGE

Store in cool conditions, preferably away from direct sunlight or excessive heat. Shelf life at least 24 months @ 24°C.

### HEALTH & SAFETY

This technical information sheet does not constitute a Safety Data Sheet (SDS). Before using this product ensure you have read and fully understood this products SDS

### PACKAGING FORMAT

Tubes.....50g, 114g  
Clam.....50g

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