

Technical Data Sheet

B2003 PLASTIC EPOXY STICK Revised

03.08.10



BARNWELL

THE SEAL OF APPROVAL

B2003 Plastic Epoxy Stick

PRODUCT DESCRIPTION

B2003 is a hand kneadable, Speciality Epoxy Putty that mixes in one minute to provide fast, permanent repairs to most plastic surfaces. When applying to surfaces it is necessary to work the material forcefully into the surface and apply pressure until adhesion begins to take effect. The lower the temperature the longer it takes to cure. It 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. The mixed epoxy turns from an aquamarine colour to "fibreglass white" upon curing and will not yellow upon exposure to UV light. After final cure, may be drilled, sawed, tapped, filed, sanded and painted. It allows patching in areas where welding is impossible.

APPLICATIONS

After proper mixing, B2003 moulds like clay and may be used to permanently patch dents, scratches, cuts, gouges and holes in fibreglass, Bumper Plastic, White Goods, such as Typewriter, Fax Housings and all types of repairs to mouldings and injection type shapes. It is ideal for making emergency repairs. The unused portion will remain stable for years if protected from direct contact with the air, in cool conditions.

USEFUL HINTS/NOTES

Mixing: Twist or cut off required amount. To mix, knead with fingers to a uniform colour. If mixing is difficult, warm B2003 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 B2003 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	Epoxide Light Blue
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

CURED PERFORMANCE

Initial cure	1 hour
Full cure time	24 hours
Lap shear strength (steel)	4.8 N/mm(2)
Shore D Hardness	75
Compressive strength	84N/mm(2) - 12,000 psi

PROPERTIES

Opening time	5 mins
Max temp resistance	121°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.

PRECAUTION

For complete safety and handling information, please refer to the appropriate Material Safety Data Sheets prior to using this product

HEALTH AND SAFETY IN USE

IRRITANT: B2003 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 such as Swarfega, followed by washing with soap and water. In case of eye contact, flush with clean water for at least 15 minutes, and then seek medical attention. When fully cured, the product can be considered non-toxic. Always keep B2003 away from foodstuffs and food utensils.

PRESENTATION

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

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the product.

Warranty: All products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Bondloc is considered accurate but is furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Bondloc makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will not infringe any patent.