

D305 AQUA-STICK EPOXY REPAIR PUTTY

PRODUCT DESCRIPTION

D305 Aqua-Stick Epoxy Repair Putty is a hand kneadable, speciality epoxy putty that mixes in one minute to provide permanent repairs to damp, wet areas and underwater applications. It may be applied under water, in either fresh or salt water and will bond tenaciously to substrates such as fibreglass, metal, wood, concrete, ceramics, glass, etc.

AQUA-STICK's cure rate is dependant upon the temperature of the water, just as it is affected by the air temperature in non-immersed applications. The lower the temperature the longer it takes to cure. **AQUA-STICK** 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' applications with no tools required for use.

AQUA-STICK has 100% solids content, will not shrink and is insoluble in water. The mixed epoxy turns from an aquamarine colour to 'fibreglass white' upon curing and will not yellow upon exposure to UV, once fully cured.

AQUA-STICK may be drilled, sawn, tapped, filed, sanded and painted. It allows patching in areas where welding is impossible.

AREAS OF USE

D305 Aqua-Stick Epoxy Repair Putty moulds to permanently patch dents, scratches, cuts, gouges and holes in fibreglass, metal and wooden boat decks and hulls. Repair fittings, pipes, electrical connections, leaking gaskets, fuel tanks, fish boxes, tubs, battery cases, sinks, toilet basins, spas, hot tubs, pools and to form custom gaskets, etc.

AQUA-STICK is ideal for making emergency in-water repairs.

PROPERTIES

The predetermined mixing ratio of base and hardener gives perfect results every time. It can be applied in underwater applications and gives excellent adhesion to a wide variety of substrates. Can be applied in fresh or salt water.

DIRECTIONS FOR USE

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

Mixing - twist or cut off the required amount of **AQUA-STICK**. If the material is cold mixing may be difficult and warming to room temperature is advised. 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 tools 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. 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 2-3 hours **AQUA-STICK** is completely cured and it can be drilled, sawn, carved, sanded, stained, or painted.

TECHNICAL DATA

Working life	3 minutes at 20°C
Shelf stability	12 months minimum stored at 25°C
Shore D Hardness (full cure 24hrs)	75-80 at 20°C
Lap Shear Tensile Strength on fibreglass	3.4 N/mm ²
Temperature limitations	120°C continuous 150°C intermittent
Chemical resistance	Resistant to hydrocarbons, ketones, alcohol, esters, halocarbons, aqueous salt solutions and dilute acids and bases.
Electrical resistance	30,000 megohms
Dielectric strength	300 volts/mil
Shrinkage	Less than 1%
Non-volatile content	100%
Compressive strength	84N/mm ² (12,000psi)

HEALTH AND SAFETY

Classification: Xi IRRITANT

Contains epoxy resins and hardeners which can cause skin irritation, therefore the use of suitable protective gloves is highly recommended. Wash hands after use. Keep out of reach of children.

Refer to the relevant Material Safety Data Sheet (MSDS)

LEGAL NOTE

The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Delta Adhesives Ltd accepts no liability arising out of the use of this information or the products described herein.

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