



american coating technologies

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AM 105 Aqua Repair Stick

Product Description

AM 105 Aqua Repair Stick is a hand-mixable, specialty epoxy putty optimized for repairs to damp, wet areas and underwater surfaces. After mixing, it forms a polymer compound that can be applied underwater in both fresh and salt water environments as well as to dry surfaces. It will bond tenaciously to substrates such as fiberglass, concrete, metal, ceramic, glass, wood, and many plastics. Each handy stick contains pre-measured portions of activator and base throughout.

No measuring or mixing tools are necessary—simply cut, mix, and apply. The consistency (like modeling clay) eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins.

Basic Uses:

Aqua Repair Stick is ideal for making emergency in-water repairs. Use it to patch scratches, cuts, dings, gouges, and holes in fiberglass, metal, and wooden boat decks and hulls; fix dents in surfboards and similar marine recreational equipment; fill chips in ceramic tile; replace missing grout in swimming pools; form custom gaskets; and repair electrical connections, fittings, pipes, leaking gaskets, tubs, battery cases, sinks, spas, hot tubs and pools.

Color:

Cured color is Off-white. If color is critical, test before applying. AM 105 Aqua Repair Stick can be sanded and painted to match any surface color.

Packaging:

Packaged in a reusable clear plastic tube with a plastic friction top, 24 tubes per carton.

Shelf Life:

Two years minimum from date of shipment when stored in original, unopened container in a dry area at temperatures below 75°F (24°C).

Immersed Applications:

In immersed applications, AM 105 Aqua Repair Stick's cure rate is dependent upon the water temperature just as non-immersed applications are affected by the air temperature: the lower the temperature, the longer it takes to cure.

*Performance Data:

Uncured Properties:

Properties	Results
Non-volatile Content	100%
Density	15.8 lb/gl (1.9 g/cm ³)
Work Life at 75°F (24°C)	25 minutes
Functional Cure	1 hour
Cure Time To Full Cure At 70°F (21°C)	24 hours

Cured Mechanical Properties:

Properties	Results
Shore D Hardness @ Full Cure (24 hrs), ASTM D2240	70
Lap Shear Tensile Strength:	
On steel, 1" x 1" x 1/16" (25.4 x 25.4 x 1.62 mm) ASTM D1002	900 PSI (6.2 MPa)
On fiberglass, 1" x 1" x 1/16" (25.4 x 25.4 x 1.62 mm) ASTM D1002	500 PSI (3.5 MPa)
Compressive Strength: ASTM D695	8,000 PSI (55 MPa)
Shrinkage: ASTM D2566	< 1%
Temperature Limits:	
Continuous	-40 to +250° F (-40 to +121°C)
Intermittent	-40 to +300°F (-40 to +149°C)

Chemical Resistance:

Resistant to hydrocarbons, esters, ketones, alcohols, halocarbons, aqueous salt solutions, and dilute acids and bases.

Features & Benefits:

- Suitable for interior & exterior use
- Contains no solvents or VOCs
- Won't shrink or pull away
- Contains no solvents or VOCs
- Non-flammable; releases no noxious fumes

Application Limitations:

- Does not adhere to polyethylene, polypropylene, or PTFE.
- Not intended for use in structural applications.

Cured Electrical Properties:

Electrical Resistance ASTM D257	30,000 megohms-cm
Dielectric Strength ASTM D149	300 volts/mil

**Typical properties are for information only, not for purposes of specification. The data above represents product performance in ideal laboratory conditions. Individual users' experience may vary depending on application conditions.*

Health Precautions:

Contains Epoxy Resin. Epoxies are skin/eye irritants and known sensitizers. Direct product contact may cause an allergic reaction in some individuals. Avoid skin/eye contact. Wear impermeable gloves when mixing or handling uncured product.

Inhalation of dust may be harmful. Avoid inhalation of dust. Wear dust mask and protective eyewear when sanding cured product.

Ingestion of product may be harmful. Avoid ingestion. Turn off power when doing electrical repairs. KEEP OUT OF THE REACH OF CHILDREN. For additional health and safety information, consult a Safety Data Sheet.

See reverse side for our application guidelines, liability and warranty.

AM 105 Aqua Repair Stick Instructions:

SURFACE PREPARATION:

To achieve optimum adhesion, surfaces must be clean and free of oil, grease, corrosion, and dirt. Scuffing or sanding the surface prior to cleaning helps ensure a good bond.

MIXING AND APPLICATION:

Although AM 105 Aqua Repair Stick can be applied underwater, it should always be mixed above the waterline prior to immersion. Wear impervious gloves when mixing or handling uncured product. Twist or cut off required amount with gloved fingers, then mix by kneading to a uniform color. Use damp fingers for easier mixing and application. If mixing is difficult, warm AM 105 Aqua Repair Stick to room temperature or slightly above. Apply to the repair surface within 10 minutes of mixing. Force into any cracks or holes. When applying to a damp, wet, or slowly leaking area, work the mixed material forcefully into the surface and apply pressure until adhesion begins to take effect.

Strike off excess material before hardening begins, preferably with a tool moistened with clean water. For a smooth cured appearance, rub with water or a damp cloth prior to hardening. At 75°F (24°C) AM 105 Aqua Repair Stick has a work life of approximately 25 minutes. Functional cure occurs in 60 minutes. The application can then be drilled, sawed, sanded, carved, and painted.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications.

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