

Product Description

Copper Stick 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 modelling 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 Copper Stick 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 saved in its original package.

Repair...

Freeze breaks.
Leaking household hot water lines.
Other plumbing problems.

Seal...

Copper gutters and downspouts.
Leaks in pipes.
Elbows.
Joints.
Sleeves.
Traps.

Bond...

To damp, wet, slow leaking surfaces.

Performance Data*

SHELF STABILITY AT 24°C, minimum	24 months
SHORE D HARDNESS AT FULL CURE (24 hrs)	80
LAP SHEAR TENSILE STRENGTH	
On steel (1" x 1" x 1/16")	4.5 MPa
On copper (1" x 1" x 1/16")	4.8 MPa
COMPRESSIVE STRENGTH	55 MPa
DENSITY	1.9 gm/cm ³
SHRINKAGE	<1%
NON-VOLATILE CONTENT	100%
ELECTRICAL RESISTANCE	30,000 megohms
DIELECTRIC STRENGTH	300 volts/mil
UPPER TEMPERATURE LIMITS	
Continuous	-40°C to 120°C
Intermittent	-40°C to 150°C
CHEMICAL RESISTANCE	
Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.	

NOT INTENDED FOR STRUCTURAL APPLICATIONS

** Not to be used for specification purposes.*

How To Use

Before applying, roughen and clean the area to be repaired. Wear impervious gloves when mixing or handling uncured Copper Stick. Then follow these easy steps.

1. **Cut** or twist off required amount.
2. **Mix** by kneading with fingers to a uniform colour. If mixing is difficult, warm Copper Stick to room temperature or slightly above.
3. **Apply** to surface to be repaired within 2 minutes of mixing. Force into any cracks or holes and extend the patch at least one-half inch beyond the area being repaired.

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.

For best results: Use damp fingers for easier mixing, application, and a smooth appearance of the cured compound. Remove excess material before hardening begins.

Curing: Copper Stick has a work life of approximately 3-5 minutes. Functional cure occurs in 60 minutes.

Health & Safety

Contains Epoxy Resin and Tri (dimethylaminomethyl) phenol. Skin and eye irritant/sensitizer. Direct product contact may cause allergic reaction in some individuals. Wear impervious gloves when mixing or handling uncured product. Avoid contact with eyes. • Inhalation of dust may be harmful; wear dust mask and protective eyewear when sanding cured product. • Ingestion of product may be harmful. • KEEP OUT OF REACH OF CHILDREN. • See product insert or SDS for additional information.

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PAGE 2 OF 2

