



Kneadaseal™ Electrical Sealing/Potting Compound

Product description

Kneadaseal is a hand mixable, UL-approved, epoxy putty compound that mixes easily in minutes and hardens in one hour to provide water- and vaportight seals for cable fittings and electrical connectors. Kneadaseal is in a handy concentric putty stick form with the curing agent encapsulated in the contrasting color base material. Its dough-like consistency eliminates drips and runs for a “no mess” application with no tools required for use. Kneadaseal cures to a hard, rigid material that is resistant to hydrocarbons, ketones, esters and alcohols with excellent adhesion to most substrates, including metals and ceramics.

Basic uses

After proper mixing, Kneadaseal can be forced into the area between conductors and cable armor to form an effective seal. Damping is not required. After about an hour, Kneadaseal will harden and form a tenacious bond. Full cure is achieved in 24 hours.

Benefits

- No shrinkage.
- No exotherm.

Application limitations

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


Cured color

Pale Yellow.

Packaging

Available as a 4 oz. (112 gm.) 7/8” x 7” stick in a reusable clear plastic tube with a plastic friction end cap, packed 24 tubes per carton.

Applicable standards

Kneadaseal complies with the Underwriters Laboratory requirements for sealing compounds,  Class I, Groups A, B, C and D; Class II, Groups E, F and G, in cable sealing fittings or lead seals for use in hazardous locations, UL File E157546. The product complies with the requirements covering the class following exposure

Performance Data*

Properties	Results	Test Method
Uncured Properties		
Work life	45 to 60 minutes	
Non-volatile content	100%	
Cured Mechanical Properties		
Hardness, Shore D, full cure 24 hrs.	65 to 75	ASTM D2240
Lap shear tensile strength on steel (1" x 1" x 1/16")	300 lbs.	ASTM D1002
Compressive strength	8,000 psi	
Shrinkage	<1%	
Dimensional change, solvent vapor exposure	0 to 3%	UL 698
Upper temperature limits		
Continuous	250°F (121°C)	
Intermittent	300°F (149°C)	
Chemical resistance	Resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions, and dilute acids and bases	
Cured Electrical Properties		
Electrical resistance	30,000 megohms	ASTM D257
Dielectric strength at 0.25 in.	300 volts/mil	ASTM D149

* Typical properties are for information only, not for purposes of specification.

to acetone, ammonium hydroxide, ethyl acetate, acetic acid, ASTM Reference Fuel C, benzene, n-hexane, furfural, 2-nitropropane, methanol, methylethyl ketone, ethylenedichloride and diethylether.

How to use

Surface preparation: To achieve optimum adhesion, surfaces must be clean and free of oil, grease, oil or dirt.

Mixing: Twist or cut off required amount. To mix, knead with fingers to a uniform color (approx. 1 to 2 minutes). If mixing is difficult, warm Kneadaseal to room temperature or slightly above. Apply to the surface within 30 to 40 minutes of mixing. Force into fittings and strike off excess material. Remove excess material before hardening begins. After 45 to 60 minutes the epoxy will harden and start to form a tenacious bond.

Shelf life: One year from date of shipment when stored in original container in a dry area at temperatures below 75°F (24°C).

Availability and cost

Polymeric Systems, Inc., is a part of Whitford Worldwide. For more information, please contact Polymeric Systems or Whitford Plastics Ltd. at:

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Runcorn, Cheshire, UK WA7 1ST
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Health precautions

- Contains epoxy resin and amines.
- May be an eye irritant. For eye contact, flush with water for 15 minutes. Call a physician.
- May be a skin irritant. Avoid prolonged contact with skin. Use of thin plastic or rubber gloves is recommended for sensitive skin. For skin contact and after use, wash hands thoroughly with soap and water.
- May be harmful if swallowed. If swallowed, do not induce vomiting; call a physician.
- Keep out of reach of children.
- When sanding cured putty and substrate, use protective eye wear and dust mask.
- Turn off power when making electrical repairs.

For additional health and safety information, consult a Material Safety Data Sheet.

NON-WARRANTY: ALL RECOMMENDATIONS, STATEMENTS AND TECHNICAL DATA CONTAINED HEREIN ARE BASED ON TESTS WE BELIEVE TO BE RELIABLE AND CORRECT, BUT ACCURACY AND COMPLETENESS OF SAID TESTS ARE NOT GUARANTEED AND ARE NOT TO BE CONSTRUED AS A WARRANTY, EITHER EXPRESS OR IMPLIED. USER SHALL RELY ON HIS OWN INFORMATION AND TESTS TO DETERMINE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY RESULTING FROM THIS USE OF THE PRODUCT. MANUFACTURER'S SOLE RESPONSIBILITY SHALL BE TO REPLACE THAT PORTION OF THE PRODUCT OF THE MANUFACTURER THAT PROVES TO BE DEFECTIVE. MANUFACTURER SHALL NOT BE LIABLE TO THE BUYER OR ANY THIRD PARTY FOR INJURY, LOSS OR DAMAGE DIRECTLY OR INDIRECTLY RESULTING FROM USE OF, OR INABILITY TO USE, THE PRODUCT. RECOMMENDATIONS OR STATEMENTS OTHER THAN THOSE CONTAINED IN A WRITTEN AGREEMENT SIGNED BY AN OFFICER OF THE MANUFACTURER SHALL NOT BE BINDING UPON THE MANUFACTURER.

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