



Kneadaseal® SL (Self-leveling) Electrical Sealing/Potting Compound

Product description

Kneadaseal SL is a self-leveling, epoxy sealing compound that hardens in less than 1 hour to provide water- and vaportight seals for cable fittings and electrical devices. Kneadaseal SL cures to a hard, rigid material that is resistant to hydrocarbons, ketones, alcohols and esters and has excellent adhesion to most substrates, including metal and ceramics. Kneadaseal SL is packed in a 225 ml. double-barrel cartridge for convenient dispensing, mixing and application. Its flowable consistency eliminates voids and ensures good wetting and coverage.

Basic uses

Kneadaseal SL can be applied with a double-barrel cartridge gun into areas between cable armor and conductors to form an effective seal. After about an hour, Kneadaseal SL hardens and forms a tenacious bond; full cure is achieved in 24 hours.

Benefits

- No shrinkage.
- Fast curing.
- Solvent-resistant.

Application limitations

- Generates heat during cure.
- Does not adhere to polyethylene, polypropylene or PTFE.
- Not intended for structural applications.

Cured color

Dark Gray.

Packaging

Available in a kit of one 7.6 fl. oz. (225 ml) double-barrel cartridge with 2 static mixers, packed 12 kits to a carton.

Applicable standards

Kneadaseal SL complies with the requirements of sealing compounds for 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 (requirements covering the class following exposure to acetone, ammonium hydroxide, ASTM Reference Fuel C, benzene, ethyl acetate, furfural, 2-nitropropane, methanol, methylethyl ketone, ethylenedichloride, diethyl-ether, acetic acid, n-hexane).

How to use

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

Mixing: Twist off cartridge cap and remove plug. Attach static mixer nozzle with cartridge cap and dispense material using a double-barrel cartridge gun.

Application: Apply to the surface within 15 minutes of mixing. The first few grams of mixed material should be discarded. Remove excess material before hardening begins. Gel time is mass dependent, i.e., 27 minutes for a 20-gm mass; 20 minutes for a 50-gm or 100-gm mass. After 30 minutes the epoxy will harden and start to form a tenacious bond.

Shelf life: Six months from date of shipment when stored in original container in a dry area at temperatures below 80°F (27°C).

Health precautions

- Contains Epoxy Resin and Amines. 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 eye-wear when sanding cured product.
- Ingestion of product may be harmful. Avoid ingestion.
- Turn off power when making electrical repairs.
- KEEP OUT OF REACH OF CHILDREN.

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

Performance Data*		
Properties	Results	Test Methods
Uncured Properties		
Consistency	Flowable paste	
Work life at 75°F (24°C), 20-gm mass	27 minutes	
Work life at 150°F (65°C)	5 to 10 minutes	
Non-volatile content	100%	
Cured Mechanical Properties		
Shore D hardness, full cure (24 hrs)	85	
Lap shear tensile strength on steel 1" x 1" x 1/16" (25 x 25 x 1.6 mm)	300 lb (2 MPa)	ASTM D2240
Compressive strength	9,500 psi (65 MPa)	
Shrinkage	<1%	
Temperature limits		ASTM D1002
Continuous	-40°F to +250°F (-40°C to +121°C)	
Intermittent	-40°F to +300°F (-40°C to +149°C)	
Chemical resistance	Resistant to hydrocarbons, ketones, alcohols, halocarbons, esters, aqueous salt solutions, and dilute acids and bases	ASTM D495
Cured Electrical Properties		
Electrical resistance	30,000 megohms-cm	ASTM D695
Volume resistivity	1x10 ¹⁴ ohm-cm	ASTM D149
Dielectric strength at 0.25 in (6 mm)	400 v/mil	ASTM D257
Arc resistance	100 seconds	ASTM D257
* 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.		

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