



Temperature, Flammability and Shipping Data for Specialty Epoxy Putty Sticks

Mixing and application temperatures

- Lowest recommended temperature for proper mixing and application is 40°F (4°C); below that temperature product is too stiff to properly mix and may not fully cure.
- If mixing is difficult because of low temperatures, putty may be warmed to room temperature or slightly above.
- Maximum recommended mixing and application temperature is 110°F (43°C). Temperatures exceeding that will cause curing before the user is able to properly mix or apply the putty.

Service temperatures

- At temperatures below -40°F (-40°C) cured epoxy putty becomes less flexible but adhesive strength is not significantly affected.
- At 176°F (80°C) cured epoxy putty may soften a little but adhesive strength is not significantly affected.
- At 194°F (90°C) more significant softening of cured product occurs and adhesive strength is affected.
- The maximum continuous service temperature is 250°F (121°C).
- The maximum intermittent service temperature is 300°F (149°C).
- Above 300°F (149°C) cured epoxy putty will become very soft and expand and adhesive strength will be reduced considerably.

Flammability of epoxy sticks

- Neither uncured or cured epoxy putty sticks have been tested to UL flammability standards and have no fire ratings.
- PSI's Specialty Epoxy Putty Sticks will not hold a flame but will burn while exposed to flame. When burning, ventilation is recommended as smoke and a sulphur odor will occur. Epoxy fumes do not contain chlorinated materials nor are they any more toxic than burning plastic.
- When cooled after burning epoxy putty sticks become brittle and hard, then turn to powder.

Shipping regulations

- PSI's Specialty Epoxy Putty Sticks contain no flammable solvents or materials.
- PSI's Specialty Epoxy Putty Sticks have flash points above 200°F (93°C). Since the liquids in the epoxy sticks are combustible, i.e., burn when exposed to an ignition source, the sticks themselves are combustible solids.
- Department of Transportation (DOT) regulations vary based on a product's epoxy content; see product MSDS for specific information.
- The National Motor Freight classification is Putty, NMFC 150110, Class or Rate 55. The Harmonized System (HS) Schedule B tariff classification is 3214.10.0020.

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