

EPOXY CLAY ALL PURPOSE

Epoxy Putty for General Repairs

Product Description

Pioneer Epoxy Clay All Purpose is hand-moldable, fast-setting epoxy putty for quick and permanent repair on glass, ceramic, metal, concrete, wood, and various types of plastic. It is an industrial-strength polymer compound used for home repairs or workshop. Each handy stick contains pre-measured portions of activator and base – no measuring or mixing tools required, simply cut, mix, and apply. The consistency (like modeling clay) eliminates drips and runs, molds easily, facilitates adhesion to the substrates and allows the material to be shaped and formed as needed before curing begins.

Key Features

- Multi-purpose repair epoxy clay
- Hand-moldable, no tools required for use
- "No mess" application
- Fast setting
- Functional cure after 1 hour (ready to be sawed, sanded, tapped, drilled, carved, machined, filed and painted)
- Suitable for interior and exterior use
- Safe for use with potable water
- 100% solid content
- Solvent free formulation
- Non shrinkable
- Non flammable

Product Specifications / Typical Properties / Physical Characteristics

Table 1. UNCURED STATE*

Parameters	Results
Color	White (outer core) Beige (inner core)
Non-volatile content	100%
Density	15.8 lb/gl (1.9 g/cm)
Potlife @ 24°C	3-5 mins
Functional Cure	1 hour
Full Cure @ 21°C	24 hours
Shelf life	18 months from manufacturing date



Table 2: Physical Properties: CURED STATE*

Parameters	Results
Shore D hardness @full cure (24 hours) ASTM D2240	75
Lap shear tensile strength (Steel) ASTM D1002	900 psi (6.2 MPa)
Compressive Strength ASTM D695	8000 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
Electrical resistance ASTM D257	30,000 megohms-cm
Dielectric strength ASTM D149	300 volts/mil

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

Applications

Repairs

- Auto trim
- Concrete
- Bricks
- Broken or loose wall and floor tile
- Emergency repairs

Mends

- Toys
- Appliances
- Lawn mowers
- Sports equipment
- Holes on auto bodies

Fabricates

- Small parts
- Electrical connectors
- Taxidermy
- Knobs
- Missing detail

LIMITATIONS

Not for polyethylene, polypropylene or PTFE. Not intended for use in structural applications.

Application Procedure**A. Surface Preparation**

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

B. Mixing

Wear impervious gloves when mixing or handling uncured product.

1. Twist or cut off required amount with gloved fingers.
2. Mix by kneading to a uniform color. Use damp fingers for easier mixing and application. If mixing is difficult, warm Pioneer Epoxy Clay All Purpose to a room temperature or slightly above.
3. Apply to the repair surface within 2 minutes of mixing. Force into 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.
4. Scrape off excess material before hardening begins preferably with a moistened tool and clean water. Rub with water or a damp cloth prior to hardening for a smooth cured appearance.

Packaging

SKU	Packaging	Weight, grams	Quantity per box
3 inches epoxy putty stick	Blistered	50	24 pcs

Storage

Store in a cool, dry place, preferably 30°C maximum.

Shelf Life

18 months from manufacturing date when kept in a sealed, unopened pack following the required storage condition

Health and Safety Precautions**WARNING**

- 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.

If on skin or hair: Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs, get medical attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

If ingested: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Collect spillage.**KEEP OUT OF REACH OF CHILDREN.****Warranty and Disclaimers**

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