



TECHNICAL DATA SHEET

PIONEER EPOXY CLAY ALL PURPOSE

(Epoxy Putty for General Repairs)

PRODUCT DESCRIPTION

Pioneer Epoxy Clay All Purpose is hand-mixable, fast-setting, epoxy putty for quick, permanent repairs to ceramics, glass, metals, concrete, wood, and numerous plastics. After mixing, it forms an industrial strength polymer compound for numerous repairs around the home or workshop. After 60 minutes, the application can be sawed, sanded, tapped, drilled, machined, filed and painted. Each stick contains pre-measured portions of base and activator throughout – no measuring or mixing tools are necessary. The consistency (like modeling clay) eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins. **Pioneer Epoxy Clay All Purpose** cures to an off-white color. Suitable for interior or exterior use, it is resistant to chemicals, water, and temperature extremes. **Pioneer Epoxy Clay All Purpose** contains no solvents or VOCs. It is non-flammable and releases no noxious fumes. It will not shrink, rot or pull away. The unused portion stays fresh for future use when saved into its original packaging.

TYPICAL USES

Repair...

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

Mend...

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

Fabricate...

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

PERFORMANCE DATA

Color	
Outer	Off-white
Core	Grey
Mixed	Off-white
Consistency	Putty
Solids Content	100%
Potlife	3 – 5 minutes
Cure Time	
Initial Strength	60 minutes
Full Cure	
Maximum Strength	24 hours
Shore D Hardness at Full Cure (24hrs)	75
Lap Shear Tensile Strength - On Steel(1"x1"x1/16")	900 lbs(6.2MPa)
Compressive Strength	8,000psi (55MPa)
Density	15.8 lb/gal (1.9 g/cc)
Shrinkage	<1%
Electrical Resistance	30,000 megaohms-cm
Dielectric Strength	300 volts/mil
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, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases
Shelflife	1 year from date of manufacture
Not intended for structural applications	
*Not to be used for specification purposes	

- ❖ The ultimate solution for small and emergency repairs
- ❖ Easy-to-use and mistake proof
- ❖ Bond instantly with superior strength
- ❖ Saves hundreds of dollars in repairs
- ❖ Belongs in very toolbox



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HOW TO USE

Before applying, roughen and clean the area to be repaired. Wear impervious gloves when mixing or handling uncured Epoxy Clay All Purpose. Then follow these steps:

1. Cut or twist off required amount.
2. Mix by kneading with gloved fingers to a uniform color. If mixing is difficult, warm Epoxy Clay All Purpose 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 1 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.

WARNING

Contains Epoxy Resin and Triethylenetetraamine. 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 SDS for additional information.

PACKAGING

BLISTER PACK

50g (3 inches) 24 pcs/box