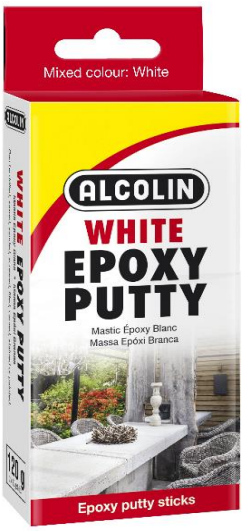
ALCOLIN

TECHNICAL DATA SHEET

ALCOLIN WHITE EPOXY PUTTY



Description

WHITE EPOXY PUTTY is a two-part, high-performance, hand mouldable adhesive for fast permanent repairs to anything made of wood, glass, plaster, concrete, concrete, ceramics, fibreglass, metals such as copper, bronze, brass and steel and many plastics. Ideal for bonding, sealing, mending, reshaping, filling or build-up a variety of rigid materials. As the epoxy is mixed by hand, the two contrasting colours blend into one colour to indicate complete mixing. The putty like consistency, eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins.

Features & Benefits

- Strong - bonds with superior strength.
- Sets to a hard finish - can be drilled, sawed, sanded, carved, stained or painted.
- Long work time - for intricate moulding work.
- Waterproof - suitable for underwater applications.
- Water smoothable - can be smoothed and formed with a wet finger.
- Easy to use - equal 1:1 ratio.
- 100% solids - will not shrink or pull away, no solvents.
- Chemical resistant - unaffected by most cleaning soaps and other chemicals.
- Heat resistant - can withstand up to 149°C.
- Durable - Suitable for interior and exterior use.

Applications

- *Repairs* broken or loose wall and floor tiles, garden furniture, loose handrails, mouldings, air conditioning coils, ducts, levelling table and chair legs.
- *Mends* toys, appliances, lawnmowers, sports equipment.
- *Forming* handles, knobs, broken nuts and bolts.
- *Seals* leaks in gutters, down pipes, sink and basin outlets, petrol and fuel tanks
- *Attaches* fixtures, machine tags, signs, anchor bolts, screws, rods, machine housings.
- *Patches* chipped wash basins and baths, concrete, floors, bricks.
- *Filling* cracks and voids in metal, concrete, walls, small dents, rust holes.

Adhesion

- WHITE EPOXY PUTTY bonds to wood, glass, plaster, concrete, concrete, ceramics, fibreglass, metals such as copper, bronze, brass and steel and many plastics.

Limitations

- Not suitable where a flexible bond is required.
- Does not bond to polyethylene, polypropylene or Teflon.
- Not suitable for surfaces that bleed oil, plasticizers or solvents.
- Not suitable for structural applications.

Safety instructions

WHITE EPOXY PUTTY is non-toxic, however, it is advisable to wear gloves in order to avoid direct skin contact. Individuals with extra sensitive skin should maintain caution and wash hands with soap and water thoroughly after mixing the product, or wear thin plastic gloves. In the event of eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. May be harmful if swallowed. Keep out of reach of children! Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

- In order to achieve optimum adhesion, surfaces should be clean and free of grease and dirt.
- Wire brushing or sanding the surface prior to cleaning helps ensure a good bond.
- Poor surface preparation may result in bond failure.

Directions for use

1. Cut or twist off the required amount of product in equal parts.
2. Mix by kneading with fingers to a uniform colour. If mixing is difficult, warm WHITE EPOXY PUTTY epoxy to room temperature or slightly above.
3. Apply to the surface to be repaired within 20 minutes of mixing.
4. Force into any cracks or holes to be filled and strike off excess material, preferably with a tool wetted with clean water.
5. For underwater applications, mix first, then take the product under water. When applying to a damp, wet or immersed area, work the material forcefully into the surface apply pressure until adhesion begins to take effect.
6. *For best results:* Use damp fingers for easier mixing and application. Remove excess material before hardening begins. For a smooth appearance of the cured compound, hand rub with a water dampened cloth prior to hardening.
7. *Curing:* WHITE EPOXY PUTTY epoxy has a work life of approximately 10 - 20 minutes. After 60 minutes, it will harden and form a tenacious bond. After 12 hours, WHITE EPOXY PUTTY can be drilled, sawed, sanded, screwed, filed or painted. Cure rate is dependent upon the temperature and humidity in the air. The lower the temperature the longer it takes to cure.

Cleaning

- Fresh epoxy can be cleaned with a water dampened cloth or acetone.
- Cured epoxy has to be removed mechanically or heated above 149°C.

Storage stability

ALCOLIN WHITE EPOXY PUTTY has a shelf life of at least 24 months if stored in a cool (below 25°C), dry place in its original moisture-tight container. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a check should be performed to observe whether the product is still workable. The unused portion will remain stable for future use if stored in its original package at room temperature.

Product packaging

2 x 60g sticks

Product data

i. Physical data

Colour – prior to curing Colour – upon curing	White and reddish brown White
Solids (%)	100

ii. Performance data

Work life (minutes)	10-20
Hardens in (minutes)	60
Full Cure (hours)	12
Shrinkage (%) **ASTM D-2566**	<1
Hardness, Shore D (full cure, 24 hours) **ASTM D-2240**	85
Upper temperature limitations (°C) Continuous Intermittent	 121 149
Chemical resistance	Resistance to hydrocarbons, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids & alkali's
Water resistance	Waterproof
Shelf life (months @ 24 °C) minimum	24 Months in sealed container

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