



INSTACRETE®

Concrete repair epoxy putty stick

Description

INSTACRETE® Epoxy Putty Stick is a hand mixable, fast setting epoxy putty that quickly repairs concrete and masonry. It also bonds to metals, wood, glass and many plastics. After mixing it forms a concrete repair polymer compound that cures to a concrete-like colour and texture with exceptional adhesion that can be molded, wrapped around, or used to build up and repair just about anything. After 60 minutes it sets to an extremely tough and durable form that can be sawed, drilled, carved, sanded, and painted



Each handy stick contains pre-measured portions of activator and base – no measuring or mixing tools are necessary. 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 as needed before curing begins

Suitable for interior or exterior use, it is resistant to water, chemicals, and temperature extremes. INSTACRETE® contains no solvents or VOC's. It is non-flammable and releases no noxious fumes. It won't shrink or pull away. The unused portion stays fresh for future use when saved in its original package

Features & Benefits

- Easy to use - mistake proof
- 100% solids – will not shrink, rot or pull away
- Fast setting (hardens in 10 minutes) – ideal for quick repairs
- Putty like consistency prior to setting – easy to mold into any shape
- Extreme toughness – can be drilled, sawed, sanded, screwed, filed, carved, stained or painted
- Extreme durability – water and chemical resistant, suitable for exterior use
- Heat resistant (up to 149°C)
- Contains no solvents or VOC's – releases no noxious fumes on curing
- Cures under water – excellent adhesion to submerged, damp, or leaking surfaces
- Sets to a concrete like colour – can be stained to match any surface
- Appearance and texture of concrete

Standards

- **USDA** – acceptable for use in federally inspected meat and poultry plants (under the former Food Safety and Inspection Service product approval program)
- **ABS** – certified by the American Bureau of Shipping for use on marine vessels

Applications

- *Patching* of floors, curbs, steps, mortar, brick re-pointing, chipped concrete
- *Repairs* to tiles, statues, lawn ornaments, birdbaths, cemetery headstones, cracks & seams
- *Anchor* bolts, screws, rods, nails, railings, legs, machine housings
- *Sealing* basement leaks, tie rod holes, cracks in concrete
- *Attaching* fixtures, machine tags, signs

Adhesion

INSTACRETE® bonds to fibreglass, metals, glass, plaster, concrete, brick and many plastics
Works on wet surfaces and underwater



Limitations

- Not suitable where a flexible bond is required
- Does not bond to polyethylene, polypropylene or Teflon
- Not suitable for structural applications

Safety instructions

QUIKCOPPER® does not cause skin irritation to individuals with normal skin sensitivity. Contains Epoxy Resin and Tri(dimethylaminomethyl)phenol. Exposure may cause allergic reactions in some individuals. For this reason, individuals with sensitive skin should maintain caution and wear plastic gloves while mixing the product

In case of eye contact, rinse with tap water for 5 to 10 minutes. If irritation persists, seek medical care. Wash hands with soap and water after use. Contact doctor if irritation occurs. May present a choking hazard if swallowed. **Keep out of reach of children!**

Surface preparation

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

Directions for use

- Cut or twist off the required amount of product
- Mix by kneading with fingers to a uniform colour. If mixing is difficult, warm INSTACRETE® epoxy to room temperature or slightly above
- Apply to the surface to be repaired within 2 minutes of mixing. Force into any cracks or holes to be filled and strike off excess material, preferably with a tool wetted with clean water. When applying to a damp, wet or an immersed area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect

- *For best results*

Use damp fingers for easier mixing and application. Remove excess material before hardening begins. Remove excess material before hardening begins. For a smooth appearance of the cured compound, hand rub with water or a damp cloth prior to hardening

- *Curing*

INSTACRETE® epoxy has a work life of approximately 4-7 minutes. After 10 minutes, it will harden and form a tenacious bond. After 60 minutes, INSTACRETE® can be drilled, sawed, sanded, screwed, filed or painted

In immersed applications the INSTACRETE® cure rate is dependent upon the temperature of the water just as it is affected by the air temperature in non-immersed applications. The lower the temperature the longer it takes to cure

Cleaning

Fresh epoxy can be cleaned with acetone. Cured epoxy has to be removed mechanically or heated above 149°C

Storage stability

- The shelf life of the product is 24 months stored at room temperature
- The unused portion will remain stable for future use if stored in its original package at room temperature

Product packaging

57g stick

Single epoxy stick consisting of activator and base supplied in a reusable clear plastic tube with a plastic friction top



TECHNICAL DATA SHEET

Product Data

i. Physical

Colour – Prior To Mixing Colour – Upon Curing	White outer / Grey inner Off white
Density (g/cm ³)	1.9
Solids (%)	100

ii. Performance

Work life (minutes)	4-7
Hardens in (minutes)	10
Final cure (minutes)	60
Shrinkage (%) ASTM D-2566	<1
Hardness, Shore D (full cure, 24 hours) ASTM D-2240	80
Compressive strength (kg/cm ²) ASTM D-695	560 (55MPa)
Lap shear tensile strength ASTM D-1002 On steel (kg/cm ²) On concrete (kg/cm ²)	50 (4.8MPa) Concrete failure
Upper temperature limitations (°C) Continuous Intermittent	121 149
Electrical resistance (mΩ) ASTM D-257	30 000
Dielectric strength(volts/mil) ASTM D-149	300
Chemical resistance	Resistance to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions, dilute acids & bases
Water resistance	Waterproof
Shelf life (months @ 24 °C) minimum	24 months in sealed container

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

Head Office: +27(0)21 555 7400
Toll-Free No: 0800 222 400
Beverly Close, Montague Gardens, 7441
PO Box 37008, Chempet, 7442
www.alcolin.com

