



## TECHNICAL DATA SHEET

# ALCOLIN MIX 'N FIX QUIKPLASTIK®

### Description

ALCOLIN MIX 'N QUIKPLASTIK® Epoxy Putty Stick is a hand mixable, fast setting epoxy putty that forms a durable bond to most major plastic types\*. After mixing it forms a polymer compound that can be moulded, wrapped around, or used to build up and repair just about anything made from rigid or semi-flexible plastic. After 2 to 3 hours it 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. ALCOLIN MIX 'N QUIKPLASTIK® 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. \* Does not bond to polyethylene, polypropylene or Teflon.



### Features & Benefits

- Strong - bonds with superior strength.
- Fast setting - hardens in 60 minutes for quick repairs
- UV resistant - will not yellow upon exposure to UV light.
- Extreme toughness - can be drilled, sawed, sanded, screwed, filed, carved, stained or painted.
- Long work time - for intricate moulding work.
- Waterproof - suitable for underwater applications and bonds to submerged substrates.
- 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.
- Heat resistant - can withstand up to 149°C.
- Safe and non-flammable - releases no noxious fumes or VOCs on curing.

### Applications

- *Rebuilding* rigid and semi-flexible plastic parts.
- *General repairs* to appliance parts, PVC furniture, vinyl siding, plastic downpipes and gutters.
- *Auto repairs* such as automotive trim, repairing of small dents, oil pans, and thread locking.
- *Sealing* leaks in PVC and ABS plastic plumbing pipes.

- *Repairs* Appliance parts, PVC furniture, vinyl siding, plastic downpipes and gutters.
- *Mends* toys, lawnmowers, sports equipment made from rigid and semi-flexible plastic.
- *Reshapes* handles, knobs, broken nuts and bolts.
- *Attaches* fixtures, machine tags, signs, anchor bolts, screws, rods, machine housings.

## Adhesion

- ALCOLIN MIX 'N QUIKPLASTIK® bonds to most rigid and semi flexible plastics e.g. fibreglass, PVC, ABS, etc. Also bonds well to metals, wood, glass, ceramics, plaster, concrete, and brick.

## Performance properties – industry standards

- **NSF** – certified by National Sanitation Foundation Standard 61 for drinking water contact.
- Conforms to **ASTM D-4236**.

## Limitations

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

## Safety instructions

ALCOLIN MIX 'N QUIKPLASTIK® 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.
- Scuffing 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.
2. Mix by kneading with fingers to a uniform colour. If mixing is difficult, warm ALCOLIN MIX 'N QUIKPLASTIK® epoxy to room temperature or slightly above.
3. Apply to the surface to be repaired within 10 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 slowly leaking area, work the material forcefully into the surface and apply pressure until adhesion begins to take effect.
4. *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 water or a damp cloth prior to hardening.
5. *Curing:* ALCOLIN MIX 'N QUIKPLASTIK® has a work life of approximately 20 - 25 minutes. After 40 – 60 minutes, it will harden and form a tenacious bond. After 2-3 hours, ALCOLIN MIX 'N QUIKPLASTIK® can be drilled, sawed, sanded, screwed, filed or painted.
6. Cure rate is dependent upon the temperature of the air. The lower the temperature the longer it takes to cure.

## Cleaning

- Fresh uncured epoxy can be cleaned with acetone.
- Cured epoxy can only be removed mechanically or heated above 149°C.

## Storage stability

The shelf life of the product is 24 months if 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.)

## Product data

### i. Physical data

|                              |                                |
|------------------------------|--------------------------------|
| Colour – Prior to curing     | White inner / light blue outer |
| Colour – Upon curing         | Off White                      |
| Density (g/cm <sup>3</sup> ) | 1.6                            |
| Solids (%)                   | 100                            |

### ii. Performance data

|                                                                               |                                                                                                                  |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Work life (minutes)                                                           | 20 - 25                                                                                                          |
| Hardens in (minutes)                                                          | 40 - 60                                                                                                          |
| Full Cure (hours)                                                             | 2 - 3                                                                                                            |
| Shrinkage (%) <b>ASTM D-2566</b>                                              | <1                                                                                                               |
| Hardness, Shore D (full cure, 24 hours)<br><b>ASTM D-2240</b>                 | 65                                                                                                               |
| Compressive strength (kg/cm <sup>2</sup> ) <b>ASTM D-695</b>                  | 560 (55 MPa)                                                                                                     |
| Lap shear tensile strength <b>ASTM D-1002</b><br>On PVC (kg/cm <sup>2</sup> ) | 25 (2.5 MPa)                                                                                                     |
| Upper temperature limitations (°C)<br>Continuous<br>Intermittent              | 121<br>149                                                                                                       |
| Electrical resistance (mΩ) <b>ASTM D-257</b>                                  | 30 000                                                                                                           |
| Dielectric strength (volts/mil) <b>ASTM D-149</b>                             | 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                                                                                    |