

## Technical Data Sheet

# KE020

## Reinforced, Two Part Epoxy Putty

### Description

KE020 is a hand-mixable, non-rusting, aluminium reinforced, epoxy repair putty that mixes and is ready to use in just one minute.

When mixed, KE020 is the consistency of modelling clay and can be moulded into shapes, wrapped around or used to build up and repair just about anything.

KE020 can be machined, ground, drilled, filed, sanded and painted after 60 minutes.

### Typical Applications

KE020 will bond a wide variety of substrates, including metals, woods, ferrites, ceramics, glass, many plastics, stone, dry concrete etc.

Typical applications include: repairing cracks, dents, gouges and holes in industrial, automotive and household objects.

### Technical Features

Chemical type <sup>1</sup> :	Epoxy Resin
Appearance:	Grey
State:	Putty
Working Time <sup>2</sup> :	4 - 7 minutes
Fixture Time <sup>3</sup> :	5 - 10 minutes
Full Cure @ 20°C	1 Hour
Cured Hardness	75 - 80 Shore D
Shelf Life @ 20°C	18 Months
Tensile Shear <sup>4</sup> :	3.4 / 4.1 MPa
Compressive Strength	83 MPa
Electrical Resistance	30,000 MΩ
Dielectric Strength	300 Volts / mil
Temperature Range	-50 to +120 °C

<sup>1</sup> Bisphenol A Epoxy Resin, number average MW <= 700

<sup>2</sup> Time before putty starts to cure, dependent on ambient temperature.

<sup>3</sup> Time before joint is self-supporting, dependent on ambient temperature.

<sup>4</sup> Lap shear on aluminium / Lap shear on mild steel

### Surface Preparation

Proper surface preparation is essential to a successful application.

Remove all paint, rust and grime from the surface by abrasive blasting or other mechanical techniques.

Roughen the surface to provide a "key" - this will give a stronger bond.

Clean the prepared area with methylated spirits or IPA to remove any oil, grease, dust or other foreign substances.

All prepared surfaces should be repaired as soon as possible to eliminate any oxidation or surface contamination.

### Mixing

Simply twist or cut off the appropriate amount of putty required for the repair from the putty stick.

Wearing appropriate protective gloves. Knead the putty with your fingers until the colour is a uniform grey, this should take approximately one minute.

### Application

Apply the mixed KE020 epoxy putty to the surface to be repaired within 2 minutes of mixing.

The mixed epoxy does not show much bond strength at this time, and can be kneaded or formed into any cracks or holes which require filling.

When applying to a damp, wet surface or slow leaking area, work the material forcefully into the surface until the exothermic process begins and the adhesive bonds to the surface.

### Chemical / Solvent Resistance

KE020 is resistant to hydrocarbons, ketones, alcohols, esters, halocarbons, aqueous salt solutions and dilute acids and bases.



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### Storage

KE020 epoxy putty should be stored in a cool, dry place when not used for a long period of time.

A shelf life of 18 months from date of manufacture can be expected when stored at room temperature (21°C) in the original container.

### Product Safety

For safe handling of this product consult the Safety Data Sheet before use. Wear Appropriate PPE as specified in section 8 of the Safety Data Sheet.

### General Information

KE020 epoxy putty is not intended for repairing or making good items that are used for storing food or drink.

KE020 is not suitable for bonding oven doors or car mirrors.

Do not use on polyolefin based substrates (e.g. polythene or polypropylene).

### Presentation

Co-extruded putty stick: ..... 50g

### Notes

The data contained in this data sheet may be reported as typical value and/or range. Values are based on actual test data and are verified on a regular basis.

### Disclaimer

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