

# QuikTitanium Epoxy Putty

## High Temperature



### EPOXY PUTTY STICK TECHNICAL DATA SHEET

Page 1 of 2

**QUIKTITANIUM** is a hand kneadable, titanium reinforced epoxy putty adhesive sealant for high temperature applications. It comes in a convenient 4 ounce concentric putty stick with the curing agent encapsulated in the contrasting colour base. The putty-like consistency provides a 'no mess' gap filling application without the use of tools.

#### FEATURES & TYPICAL USES:

**QUIKTITANIUM** is designed to bond and repair materials that will be exposed to high temperatures. After proper mixing, the material molds like putty and may be used in a variety of industrial maintenance applications. It can be used to repair iron pipes, tanks, tools, and equipment, stripped threads, blow holes, molds, patterns, and castings; and duct work. The unused portion will remain stable for months if stored in its container at room temperature.

#### SURFACE PREPARATION & APPLICATION:

**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. **Mixing:** Use of rubber or plastic gloves is strongly recommended when mixing and applying. Twist or cut off required amount. To mix, knead with fingers to a uniform color. If mixing is difficult, warm **QUIKTITANIUM** to room temperature or slightly above. Apply to the surface to be repaired within 1 hour of mixing. Force into any cracks or holes to be filled and strike off excess material, preferably with a tool wetted with clean water. Heating **QUIKTITANIUM** or applying to warm surfaces will accelerate the cure. For a smooth appearance of the cured compound, hand rub with water or a damp cloth prior to hardening. Remove excess material before hardening begins. After 2 hours the epoxy will begin to form a tenacious bond. Curing at higher temperatures (150°F) will provide for a stronger bond and faster hardening. Curing at lower temperatures will retard the cure. **QUIKTITANIUM** can be drilled, tapped and sanded after 8 hours at room temperature cure.

#### CAUTION:

May cause allergic skin reaction. May be an eye, skin and respiratory irritant. Contains epoxy resin and amines. Avoid contact with eyes and prolonged contact with skin. For eye contact, flush with water for 15 minutes; call a physician. For skin contact, wash thoroughly with soap and water. If swallowed, **DO NOT** induce vomiting; call a physician. **Keep out of reach of children.** Individuals should wash hands thoroughly after mixing the compound or wear thin plastic or rubber gloves.

#### MANUFACTURED BY:

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FORM: QUIKTITANIUM\_TDS.DOC REV.: 2 DATE: 11/08



#### FEATURES:

- Low odour & easy to use.
- High temperature epoxy.
- Reusable.
- Adheres to many substrates.
- Ideal for repairing iron pipes, tools, stripped threads and other exposed high temp. applications.

#### AVAILABLE SIZES & COLOUR:

- 7/8" diameter sticks
- 3-1/2" (2 oz.) length.
- 7" (4 oz.) length.
- Packed in a reusable clear plastic tubes
- Bulk packed in quantities of 24 sticks per case.
- **Available Colour:** Golden brown titanium colour after cure.



www.NuFlex.com

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### TYPICAL PROPERTIES:

These values are not intended for use in preparing specifications. Spec Writers; please contact NUCO Inc. before writing specifications if any further information is required.

Description	Specification
<b>APPLICATION PROPERTIES:</b>	
Form:	Concentric putty stick
Non-volatile, %:	>99
Shelf Stability @ 23°C (75°F) Months (minimum):	6 or 12
Density, lb./gal (g/cm):	16.5 (1.90)
<b>CURING CHARACTERISTICS:</b>	
Work Life, hours, 23°C (75°F):	1.5 – 2
Shrinkage, %, ASTM D 2566:	< 1
Functional Cure, hours, ASTM D 1002:	
Lap Shear Tensile Strength-200psi:	8
Cure time to full cure@ 21°C (70°F), days:	3
<b>CURED MECHANICAL PROPERTIES:</b>	
Tensile Lap Shear Strength (Stl+Stl), 23°C (75°F), psi:	
Cured @ 23°C (75°F) for 24 hours:	250
Cured @ 150°F for 24 hours:	750
High Temp Lap Shear Strength (Stl+Stl), 260°C (500°F), psi:	
Cured @ 23°C (75°F) for 24 hours + 260°C (500°F) for 1 hour:	250
Shore D Hardness	
@ 23°C (75°F)	80
@ 260°C (500°F)	48
Thermal Gravimetric Analysis	
@ 5% Wt. Loss, (°C)	365
@ 10% Wt. Loss, (°C)	390
Tg by DSC, °C:	57
Compressive Strength, volts/mil yy (ASTM D-695):	12,000
Service Temperature, °F, Continuous Temp. (-40°F to 500°F):	-5°C to 260°C
Dielectric Strength, volts/mil, ASTM D 149:	300
Chemical Resistance, UL 698:	Resistant to hydrocarbons, alcohols, esters, halocarbons, aqueous salt solutions, and dilute acids and bases.
Electrical Resistance, megohms, ASTM D 257:	30,000

### DISCLOSURE

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