



Metal Aid Engineers

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REPAIR · REBUILD · RESTORE

specialty epoxy putty sticks

fix anything! no mess!

SETS ROCKHARD WITHIN MINUTES - BELONGS IN EVERY TOOLBOX!



Quik Plastik

- Repair rigid & semi-flexible plastic
- Fix automotive trim & appliance parts
- Seal leaks in PVC & ABS pipe
- Ideal for outdoor furniture & toys

Quik Aluminum

- Repair gutters, downspouts, storm doors & siding
- Fix boats and RV's
- Mend HVAC, machine parts & castings
- Patch tanks & pipes

Quik Copper

- Bonds to damp, wet & slow-leaking surfaces
- Fix freeze breaks & hot water lines
- Seal leak in pipes, elbows & joints
- Ideal DIY 15 minute plumbing repair

Fast Steel

- Rebuild engine parts, fix mufflers; radiators
- Patch ducts & tanks; seal leaks, fill cracks
- Repair metal tools, housing & appliances
- Form nuts & bolts; anchor machines & equipment

Insta Crete

- Patch chipped concrete & masonry
- Fix birdbaths, statues & lawn ornaments
- Seal tie-rod holes, fix curbs & steps
- Anchor railings and fixtures

Repairit Quik

- Form knobs, pulls & missing parts
- Attach fixtures & signs
- Patch leaks, fill cracks, form custom gaskets
- Electrical use instead of taps or plastic connectors
- Ideal for hobby & craft; fix broken pottery & ceramics
- Taxidermy fixturing & form parts; repair horse hoofs

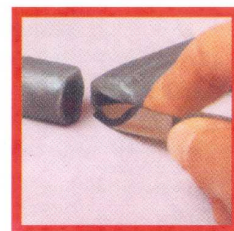
Quik Wood

- Repair gouged furniture & molding
- Fill nail, stripped screw holes & cracks
- Repair dry rot & insect damage
- Level wobbly furniture legs
- Restore antique frames & carvings

Aqua Mend

- Bonds to wet & underwater surfaces
- Emergency and routine repairs to boat decks & hulls
- Repair surfboards and other marine recreational items
- Patch spas, pools, tubs, tanks, gutters & downspouts
- Fixturing compound for aquariums

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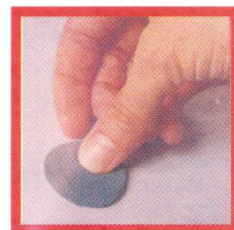
1. Cut

**a
s**



2. Mix

**1
2
3**



3. Apply

Eight different products - each designed for a specific type of applications. Can be drilled, tapped filed, machined, screwed, sawed, sanded & painted



fill cracks

patch pipes

seal leaks

belongs in every toolbox



mend fences

fix antiques

re-form parts

more info on back



QuikTitaniumTM

Product description

QuikTitanium is a hand-mixable, titanium reinforced epoxy putty stick specifically formulated to bond and repair materials that will be exposed to high temperatures in industrial maintenance applications. Each stick contains pre-measured portions of base and activator throughout. No measuring or mixing tools are needed - just cut, mix and apply. When mixed to a uniform color, the materials combine to form a polymer compound that can be molded into shapes, or used to build up, repair and patch almost anything. This industrial hi-strength product cures to tough/hard substance and bonds tenaciously to metals or any substrate. After 8 hours of cure, Quik Titanium can be machined, tapped, drilled, ground or filed.

Basic uses

Quik Titanium can be used to repair tanks, iron pipes, equipment, tools, stripped threads, blow holes, patterns, castings, molds, ductwork and other repair's including sealing cracks & leaks..

Benefits

- Solvantless.
- Low odor.
- Long pot life.
- Service temperature -40 to 500°F (260°C)

Color

Golden-brown titanium color.

Packaging

Packaged in a reusable clear plastic friction top tube's.

How to use

Surface preparation :

To achieve optimum adhesion, surfaces must be clean and free of oil, grease, corrosion and dirt. Scuffing or sanding the surface prior to cleaning helps ensure a good bond. Final cleaning with non-residue solvent (Trichloroethylene) is recommended for best results.

Mixing

Twist or cut off required amount then mix by kneading to a uniform color. If mixing is difficult, warm QuikTitanium to room temperature or slightly

above. Apply to the repair surface within 1 hour of mixing. Force into any cracks or holes to be filled and strike off excess material before hardening begins, preferably with a tool moistened with clean water. Heating QuikTitanium or applying to warm surfaces will accelerate the cure. For a smooth cured appearance, rub with water or damp cloth prior to hardening. After 2 hours the epoxy will form a tenacious bond. Curing at higher temperatures (150°F/65°C) will provide a stronger bond and faster hardening; lower temperatures will retard the cure. After 8 hours at room temperature QuikTitanium can be drilled, tapped, sanded & painted if required.

Application limitations

- Not intended for use in structural applications.

Performance Data *		
Properties	Results	Test Method
Uncured Properties		
Work life at 75°F (24°C)	1.5 to 2 hours	
Non-volatile content	> 99%	
Density	16.5 lb/gal. (1.90 g/cm ³)	
Cured Mechanical Properties		
Functional cure (lap shear tensile strength=200 psi)	8 hours	
Cure time to full cure at 70°F (21°C)	24 hours	
Shore D hardness at 75°F (24°C)	80	ASTM D2240
at 500°F (260°C)	48	
Lap shear tensile strength (steel to steel) Cured at 75°F (24°C) for 24 hrs	250 psi (1.75 MPa)	ASTM D 1002
Cured at 150°F (65°C) for 24 hrs	750 psi (5.25 MPa)	
High-temp lap shear strength (steel to steel) Cured at 75°F (24°C) for 24 hrs + 500°F (260°C) for 1 hr.	250 psi (1.75 MPa)	ASTM D1002
Compressive strength	8,000 psi (55 MPa)	ASTM D695
Shrinkage	< 1%	ASTM D2566
Hi-temp weight loss (24 hours)	< 1% at 400°F (204°C) < 2% at 500°F (260°C)	
Tg by DSC	134°F (57°C)	
Temperature limits Continuous	-40 to 450°F (-40 to 232°C)	
Intermittent	-40 to 500°F (-40 to 260°C)	
Chemical resistance	Resistant to hydrocarbons, ketones, alcohols, esters, hydrocarbons, aqueous salt solutions, and dilute acids and bases	
Cured Electrical Properties		
Electrical resistance	30,000 megohms	ASTM D257
Dielectric strength	300 volts/mil	ASTM D149

*Typical properties are information only, not for purposes of specification.



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PSI Specialty epoxy putty stick— performance data

1. Resistant to hydrocarbon, ketones, alcohols, esters, halocarbons, aqueous salty solutions, dilute acids and base
2. When applying to a damp wet or slowly leaking area; work the material forcefully and apply pressure until adhesion begins
3. Once cured it can be machined and painted.

Description	Density Gm / cm ³	Work life	Curing	Upper temp	Lap Shear Tensile strength	Compressive strength	Shore 'D' Hard- ness	Elect. Resist Meg. Ohms	Di- electric strength Volts/ Mil
QuikTitanium® To repair iron pipes, Tanks, tools and equipments, stripped threads, blow holes, molds, patterns, castings and duct work.	1.9	1.5 – 2 Hrs	8 Hrs	232°C (260°C Peak)	17 Kg/cm ² when cured at 24°C, 51 Kg/cm ² when cured at 65°C	548 Kg/cm ²	80	30,000	300
QuikPlastic® To repair all major plastic (except polyethylene, polypropylene), metals, wood, glasses and masonry	1.6	20 Min	60 Mins	121°C (1 50° Peak)	24 Kg/cm ² on PVC	685 Kg/cm ²	65	30,000	300
QuikAluminium® To repair aluminum metals, wood, glass, masonry and many plastics	1.6	5 Min	60 Mins	121° C (150°C Peak)	34 Kg/cm ² on Aluminium, 41 on steel	822 Kg/cm ²	80	30,000	300
QuikCopper® To repair copper, brass, bronze, wood, glass, many plastics and non-ferrous metals.	1.9	3 Min	60 Mins	121° C (150°C Peak)	45 Kg/cm ² on steel, 48 on copper	822 Kg/cm ²	80	30,000	300
FastSteel® Repair steel, metals, wood, glass, masonry and many plastics.	2.2	3 min	60 Mins	121° C (150°C Peak)	62 Kg/cm ² on steel	822 Kg/cm ²	80	30,000	300
InstaCrete® To repair concrete and masonry, metals, wood, glass, and many plastics	2	4 Min	60 Mins	121° C (150°C Peak)	41 Kg/cm ² on steel, concrete failure on concrete.	822 Kg/cm ²	80	30,000	300
RepairitQuik® To repair metals, wood, glass, concrete, ceramics and many plastics.	1.9	3 Min	60 Mins	121° C (150°C Peak)	62 Kg/cm ² on steel.	822 Kg/cm ²	75	30,000	300
AquaMend® (Under water putty) To repair fiber glass, concrete, glass, metals, wood, many plastics.	1.9	20 Min	60 Mins	121° C (150°C Peak)	62 Kg/cm ² on steel.	822 Kg/cm ²	70	30,000	300
Quikwood® To repair wood, metal, glass, masonry, and many plastics	0.9	15 Min	60 Mins	121°C	900 Kg/cm ² on steel, 500 Kg/cm ² on oak	822 Kg/cm ²	75	30,000	300

Unit: 1 Box = 9 Sticks, 1 Stick = 114 Grams

Place:
Date:

For Metal Aid Engineers

Manager