

## TECHNICAL DATA SHEET

### ALL METAL EPOXY PART NO. 44109

#### PHYSICAL PROPERTIES

##### Cured 7 days @ 75°F

Shore Hardness.....	80 Shore D
Gap-Fill .....	Good
% Solids by Volume .....	100
Specific Gravity .....	1.19 g/mL.

##### Uncured

Color .....	Grey
Mixed Viscosity .....	100,000 cps
Mix Ratio by Volume.....	1:1
Mix Ratio by Weight .....	1:1
Working Time .....	120 min. (28 gm @ 72°F)
Fixture Time .....	3-5 hr @ 72°F
Full Cure.....	2 hr @ 66°F
Service Temperature .....	Dry, -40°F to 150°F

##### Tests Conducted

Cured Hardness Shore D ASTM D 2240  
Cured Density ASTM D 792



#### FEATURES

- Bonds rigid durable substrates such as metals, glass, ceramics, concrete and wood in all combinations
- Forms a hard rigid bond self leveling liquid in minutes
- Easy to use pre-measured syringe
- Full cure in 2 hours in low temperatures
- 100% reactive, no solvents
- Good solvent resistance

#### TYPICAL APPLICATIONS

- Bond parts and accessories for do-it-yourself projects and hobbies
- Bond porcelain or metal designs to wood, marble, concrete and many other materials
- Mend china wares and pottery

#### SURFACE PREPARATION

Clean surface by solvent-wiping any deposits of heavy grease, oil, dirt or other contaminants. Surface can also be cleaned with industrial cleaning equipment such as vapor phase degreasers or hot aqueous baths. If working with metal, abrade or roughen the surface to significantly increase the microscopic bond area and increase the bond strength.

#### DESCRIPTION

**Dynatex® All Metal Epoxy** is a rapid-curing, general purpose adhesive/encapsulant. It bonds rigid, durable substrates such as metals, ceramics, glass, concrete, and wood in all combinations. It forms a clear, hard, rigid bond coating in minutes. Pre-measured syringe assures proper mix for consistent results.

## MIXING INSTRUCTIONS

1. Snap off nozzle tip.
2. Depress plunger to dispense.
3. Mix thoroughly for 2 minutes.
4. Apply to surfaces to be repaired with a putty knife or other appropriate tool.
5. Epoxy sets in approximately 4 minutes – full strength approximately 60 minutes. Do not disturb repair for at least 20 minutes.
6. Immediately remove excess epoxy.
7. Attach cap after each use.

## APPLICATION INSTRUCTIONS

1. Apply mixed epoxy directly to one surface in an even film or as a bead.
2. Assemble with mating part within recommended working time.
3. Apply firm pressure between mating parts to minimize any gap and ensure good contact (a small fillet of epoxy should flow out the edges to display adequate gap fill).

For very large gaps:

1. Apply epoxy to both surfaces.
2. Spread to cover entire area OR make a bead pattern to allow flow throughout the joint.

Let bonded assemblies stand for recommended functional cure time prior to handling.

## CHEMICAL RESISTANCE

*Chemical resistance is calculated with a 7 day, room temp. Cure (30 days immersion @ 75°F)*

Acetic (Dilute) 10% .....	Poor
Acetone .....	Poor
Ammonia .....	Poor
Corn Oil .....	Excellent
Cutting Oil .....	Excellent
Ethanol .....	Poor
Gasoline (Unleaded) .....	Excellent
Glycols/Antifreeze .....	Fair
Hydrochloric 10% .....	Poor
Isopropanol .....	Poor
Kerosene .....	Excellent
Methyl Ethyl Ketone .....	Poor
Mineral Spirits .....	Excellent
Motor Oil .....	Excellent
Sodium Hydroxide 10% .....	Poor
Sulfuric 10% .....	Poor

## STORAGE AND SHELF LIFE

When stored in the original unopened containers at or below 90°F (32°C), **Dynatex® All Metal Epoxy** has a shelf life of 12 months from date of shipment.

In Countries where high heat and humidity are a factor, special precautions must be taken. Store product in a covered, well-ventilated warehouse and avoid excessive heat conditions. Storage in high heat, high humidity conditions may reduce shelf life by up to 30%. Rotation of stock is an absolute necessity. Cartons should always be stacked upright. DO NOT stack cartons on their side. **NEVER** stack cartons more than 8 high. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building.

## USERS PLEASE READ

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.

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