



## DESCRIPTION

Hi-Temp Lab-metal is a ready-to-use, aluminium-filled repair and patching compound. Applied directly from the can with a putty knife or similar tool, Hi-Temp Lab-metal adheres to metal, wood, plastic, glass, fiberglass, and more. Apply right from the can; no two-part mixing or measuring and no heat catalyst is required.

Many applications may be made from a single can. After each use, to prevent Hi-Temp Lab-metal from hardening in the can, pour a small amount of Lab-solvent over the remaining Hi-Temp Lab-metal contents, then cover tightly. (Stir the solvent into the Hi-Temp Lab-metal upon opening container)

## FEATURES

- *Withstands heat up to 1000°F (must be heat cured as directed)*
- *Excellent adhesion*
- *Excellent weather and abrasion resistance*
- *Ready-to-use formulation; no mixing or measuring or heat required.*
- *Doesn't peel or flake*
- *May be thinned for brush and spray applications*
- *Can be milled, chiselled, drilled, sawed, tapped, machined, ground, sanded and filed*
- *Coatable with liquid or powder coatings*
- *Can be thinned for brush applications*
- *Impervious to rust, rot and mildew*
- *Not affected by varying climatic conditions*

## RECOMMENDED USES

Hi-Temp Lab-metal is recommended where original Lab-metal may not withstand the extreme heat. Originally developed to meet foundries' core box repair needs, industries such as metalworking, powder coating, welding, fabricating, heating, construction, auto repair, die casting, mold refinishing, and sheet metal production and finishing use Hi-Temp Lab-metal. The repair compound is used on:

- Foundry core boxes
- Duct work
- Radiators
- Molds
- Mufflers, exhaust systems, engines
- Wood and coal burning stoves, grills, and industrial ovens
- Dented metal, prior to powder coating

## SURFACE PREPARATION

For best results, surface should be clean and dry (clean with Lab-Solvent). Roughen surface to achieve optimal adhesion. Stir Hi-Temp Lab-metal before use. Thin with Lab-solvent if necessary.

## APPLICATION

Spread with putty knife or similar tool. Thin with Lab-solvent as needed. When filling deep holes or cavities, the putty should be applied in thin layers, less than ¼ inch thick. Allow each layer to dry for at least 24 hours at room temperature, and heat harden prior to each additional coat. Heat cure at 425oF for one hour.

To apply Hi-Temp Lab-metal with a paint brush, it must be thinned to paint consistency with Lab-solvent, then applied with light brush strokes – not worked over as with paint. Dip the brush into Lab-solvent periodically to keep the bristles free and prevent clogging.

**Application temperature range:** Room temperature during application and drying time.

## THINNING

*Thin with Lab Solvent*

## DRYING TIME

The depth of the application determines drying time; hardening occurs by exposure to air. Apply no thicker than ¼ inch per application. The application must air dry for 24 hours, or until the product has hardened to a metal state. It must then be heat cured (before applying a second coat.)

## STORAGE

Store in dry place at room temperature. For extended storage, add a capful of Lab-solvent to the unused Hi-Temp Lab-metal and cover tightly after use.

## PACKAGING

Available in the following sizes

- 14 oz.
- 24 oz.



#### TECHNICAL DATA

<i>Product Data</i>	
Description	Ready-to-use aluminium filled repair and patching compound. Single component dent and body filler/seal
Colour	Metal Grey. Aluminium when buffed
Adhesion	Excellent adhesion to clean, dry surfaces of metal, hard plastics and glass. Hi-Temp Lab-metal may not be used as an adhesive
Hardness	81 on Shore D Scale
Coefficient of Linear Expansion Strength	15 x 10 <sup>-6</sup> inch/inch per °F Tensile: 650 lb. / sq.in Compressive: 20,000 psi Water: 50 psi
Specific Gravity	1.95 at 75°F
Weight	Cubic inch: 31.2 grams or 1.10 oz.
Heat Resistance	1000°F (once heated as directed)
Chemical resistance	Not affected by mild acids, gasoline, petroleum, petroleum solvents, oil or L.P. gas. Alkalis will attack Lab-metal slowly, but only after extensive immersion
Combustibility	Will not support combustion
Conductivity	A non-conductor at normal voltage. Not considered an insulator. Accepts ground for powder coating.
Thermal conductivity	Est. 1-2 BTU per sq.ft., per hr., per °F
Mechanical Properties	Strong and durable. Can be milled, sawed, drilled, tapped, sanded, ground, filed. Does not shrink, chip, crack or peel.

#### WARRANTY

Dampney protective coating products are expressly warranted to meet applicable technical and quality specifications. The technical data contained herein are accurate at the date of issuance but are subject to change without prior notification. No warranty of current accuracy is hereby given or implied. User must contact Dampney to verify correctness before ordering. Dampney assumes no responsibility for coverage, performance or injuries resulting from handling or use and LIABILITY, IF ANY, SHALL BE LIMITED TO PRODUCT REPLACEMENT. In no event will Dampney be responsible for consequential damages, except insofar as mandated by law. Dampney DISCLAIMS ALL OTHER WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.