

# TECHNICAL DATA SHEET – ALL-METAL®

PRODUCT: all-metal® Body Filler  
TECHNICAL CALLS: 1-855-RING USC



## DESCRIPTION:

USC all-metal® Specialty Body Filler is the world's first aluminum-filled automotive compound. Easy to spread and use, all-metal repairs metal with metal with the workability of a premium body filler. Because of its excellent adhesion, all-metal is ideal for restoration and classic car repairs. USC all-metal can be drilled or tapped, is waterproof, and can be powder coated.

## PART NUMBERS:

- |                           |                  |               |
|---------------------------|------------------|---------------|
| • 14010 all-metal® Gallon | 2 gallons / case | 22 lbs / case |
| • 14060 all-metal® Quart  | 6 cans / case    | 18 lbs / case |

## PRODUCT USES:

Use for filling and repair of minor bodywork up to ¼", such as dents, dings, rust, hail damage and small holes.

## TYPICAL SUBSTRATES:

- Steel
- Aluminum
- Fiberglass
- 2K Primers
- Aged, sanded OEM Topcoats
- Zinc-coated steel



## SURFACE PREPARATION:

1. Clean surface. Remove all dirt, oil, grease and wax with a cleaning solvent such as 1240-1 Wax, Grease & Silicone Remover.
2. Make sure surface is thoroughly dry before applying filler.
3. Use 40-80 grit disc to featheredge paint for good mechanical adhesion.



## MIXING:

For best results, bring filler and provided liquid hardener to room temperature (minimum temperature 65°F). Stir product before dispensing. Mix filler and liquid hardener at a ratio of 1% by weight of liquid hardener to filler (or ¼ teaspoon reactor for every 2 fl. oz. of filler or 15 drops to a golf ball size amount of filler). Mix thoroughly using a plastic spreader on a non-absorbent mixing board. Work quickly; approximate setting time is 3 minutes.

If all-metal is to be powder coated, mix in liquid hardener at a ratio of 2% by weight of filler to ensure a thorough cure. Working time will be short at this mixing ratio. Allow all-metal to cure overnight before the powder coating process.

## APPLICATION:

1. Using a plastic spreader, apply a thin layer of filler to surface, using firm pressure for maximum adhesion.
2. Apply additional layers, if necessary, building up damaged area higher than surrounding metal surface to allow for sanding of filler.
3. **IMPORTANT! DO NOT RETURN UNUSED MIXTURE TO CAN AS IT WILL HARDEN THE REMAINING CONTENTS.**

**FINISHING:**

1. When material has cured, in approximately 15 minutes, sand with a 80-120 grit sandpaper.
2. Finish sand with 180-240 grit.

**TOPCOATING:**

May be topcoated with polyester, 2K urethane or 1K primer. Refer to paint manufacturer's instructions for topcoat application.

**SPECIAL NOTES:****POWDER COAT RECOMMENDATIONS**

USC all-metal can be applied to steel and painted using the powder coating process. Film thickness of the filler should remain below 10 mils. The baking temperature should not exceed 400°F / 204°C. If a higher baking temperature or a thicker application of filler is needed, conduct on-site testing for adhesion results.

If all-metal is to be powder coated, mix in liquid hardener at a ratio of 2% by weight of filler to ensure a thorough cure. Working time will be short at this mixing ratio. Allow all-metal to cure overnight before the powder coating process.

**TECHNICAL INFORMATION:**

Appearance as Packaged:  
VOC

Weight Per Gallon (Density):  
Maximum Recommended Thickness (sanded):  
Viscosity @ 77°F  
Gel Time @ 77°F:  
Shore "D" Hardness Values @ 24 hours:  
Sanding Time @ 77°F:

Metallic Silver  
Packaged: 265 g/l  
Applied: 1.8 g/l  
11.0 pounds (Average)  
1/8"  
60,000 - 80,000 cps (Average)  
2.0 – 3.0 minutes  
70-80  
15-20 minutes

**ASSOCIATED MSDS:** Filler: "All-Metal-14009"

Hardener: "All-Metal Reactor-93510"

**HEALTH & SAFETY:**

Read all warnings, first aid and safety for all components before using. Keep out of reach of children and animals. Protect hands with impervious rubber gloves. Wear face, skin and eye protection. When sanding, we recommend the use of a respiratory covering device to protect from dust (MSA mask P/N 459029 with MSA cartridge 464029 or equivalent). When using power equipment, refer to power tool manufacturer's recommendations for safety equipment. USC products are for industrial use by trained professionals only.

**Emergency Medical or Spill Control Information:**

In U.S. and Canada call CHEMTREC at 1-800-424-9300