



## HI-ALLOY COLD SPRAY

### TWO STEP - METAL ALLOY SPRAY POWDERS

**MB-1 BONDCOAT** is the base powder used as the foundation for all of the MB Top Coat or Finishing powders. This composite metal powder alloy will adhere to properly prepared steels, cast irons, stainless steels, nickel alloys, aluminum, brass and bronze.

**MB-2** is a machinable, nickel chrome, top coat or finishing alloy. This is the most versatile of the MB powders. It provides tough but machinable coatings, which have excellent resistance to frictional wear, and its corrosion resistance is superior to most stainless steels. These characteristics make it useful for building up corrosion resistant steels and high nickel alloys. This powder may be built-up to 1/8" thick, has a hardness of Rockwell B 80, and is easily machined with carbide tipped cutting tools.

**MB-3** is a non-machinable, nickel chrome, top coat or finishing alloy. Corrosion resistance of this alloy is excellent and similar to MB-2. The deposits are dense and extremely hard resulting in outstanding resistance to wear from abrasion, friction, cavitations and erosion. This powder may be built-up to .100" thick, has a hardness of Rockwell C 38, and must be ground to finished size.

**MB-4** is a machinable, aluminum bronze, top coat or finishing alloy. This alloy's deposits are extremely dense, exhibit good corrosion resistance, excellent metal to metal wear resistance, and are widely used to repair worn bearing surfaces. This powder may be built-up to 1/4" thick, has a hardness of Rockwell B 80, is easily machinable with carbide tipped cutting tools, and will work harden during machining.

**MB-5** is a top coat or finishing alloy which is a non-machinable mixture of a nickel chrome alloy and a tungsten carbide powdered metal. These ultra hard carbide particles make this the hardest and most abrasion resistant of the MB top coat powders. This powder may be built-up to .100" and its coarse carbide particles, if left unfinished will provide a rough gripping surface. If finishing is required it should be done with silicon carbide grinding wheels.

**MB-6** is a machinable, nickel chrome, top coat or finishing alloy. This alloy is similar to the MB-2 alloy but its deposits provide greater resistance to highly corrosive chemicals. It may be built-up to 1/8" thick, has a hardness of Rockwell B 90 and is easily machinable with carbide tipped cutting tools.