BRAY SLURRYGUARD™ ENHANCEMENT COATING

WHAT IS SLURRYGUARD™?

SlurryGuard™ is a Bray exclusive “synergistic” coating that combines the advantages of an ultra-hard surface coating with the controlled infusion of polymers, dry lubricants, and other materials to provide an entirely new composite with improved properties to the base metal. It can be applied to a variety of products including gates, discs, balls, and other seating surfaces.

BENEFITS

- Dramatically increase surface hardness
- Resist corrosion, chemicals, and acids
- Prevent abrasive wear and galling
- Self-lubricating for extended wear
- Provide superior mold release
- Permanently dry-lubricated for very low COF (0.09)
- Speed cleanup and sanitation maintenance
- Eliminate sticking and product “hang-up”
- Prevent galvanic corrosion with incompatible metals
- Won’t chip, peel or flake off like “paint-ons”

OVERVIEW

Wear Resistance - Hardness is up to Rc 68 (940 Vickers scale) — better than hard chrome plate. There is no degradation of fatigue strength. SlurryGuard™ also eliminates the likelihood of galling or seizing.

Corrosion Resistance - SlurryGuard™ “synergistic” coating is about 3 times better in corrosion resistance to chromium or standard electrolytic-nickel plated coatings (Based on ASTM B117 Salt Spray Testing). Good resistance to most common chemicals.

Friction - Surface is smooth and slippery. In some cases, the static friction decreases with an increase in load. SlurryGuard™ eliminates “stick-slip” and undesirable vibration of higher break-away friction.

Temperature - Exhibits high strength, toughness and self-lubricity down to –250°F (–157°C). Exhibits flexibility down to –110°F (–79°C). 850°F (454°C) is the maximum continuous operating temperature.

Non-stick Release Properties - Very few solid substances, even adhesives, adhesive-backed products or glues, will permanently adhere to the proprietary polymer-impregnated surface of a SlurryGuard™ coated part. Most substances, such as plastics, rubber or slurries, release easily.

Where is SlurryGuard™ used? - On a valve body, gate, stem, disc, or ball which then provides extreme wear resistance and adds self-lubricating properties. This coating resists corrosion, sticking, static buildup, friction, and galling plus lowers thrust or torque to actuate.

➔ Thickness of SlurryGuard™: 0.5 to 2.0 mils

➔ pH Range: 5 to 8.5