

Application Guide

HS-970 (single component)

Polysilazane Nano-Ceramic available in “Colors”

The HS-970 is a high performance, ambient curable and/or oven cured barrier product
The HS-970 coating is designed for uses that demand a coating that offers;

- Super Durable Abrasion Resistance
- High Temperature & Flame Resistance
- Extremely Good Corrosion Resistance
- A Tough, Smooth, Thin Film Coated surface



HS-970 Solid Tone Coating was formulated for simple application & high performance results.

Note! Surfaces must be free from oils and other contaminants before starting the coating process.

Application on metals and/or alloy components; (firearms, their components, knives, etc.)

- it is always best to create a blast profile by a fine 120 grit aluminum oxide, garnet or equal, on all of the surfaces that will be coated.
- **(Do not use Glass or natural Sand as this will impede the adhesion or the coating to the surface).**
- **(Do not handle blasted parts with bare hands, as salts/acids will contaminate the surface and possibly cause a loss of adhesion in those areas that will see extreme heat or extreme weathering).**
- Mix contents well before applying to ensure that no solids are in the bottom of the container.
- With clean dry air blow off any dust from the surfaces, preventing contaminating the coating.
- **Interior coating:**
 - ✓ Plug all of the openings or threaded holes to prevent coating from entering them.
 - ✓ Now hang the all of the parts so that it allows for ease of spraying the exterior surfaces.
 - ✓ It may be necessary to attach a thin wire on small pieces to prevent “swinging” while spraying the coating on the part.
- **Exterior coating:**
 - ✓ **With a HLVP or similar spray gun fitted with a fine tip (i.e. 0.08);**
 - A finer spray mist is better, enabling the product to flow out easier and help control the products thickness.
 - ✓ **Now start to spray all of the hardest areas to coat first;**
 - Then start to spray the remaining areas until the entire surface is coated with an approximate dry film thickness of .4 to 1 mil.
 - ✓ Let the coated parts ambient dry to a “Dry to the Touch” film, a warm 110°F(max) air flow will speed this up.
 - ✓ **Do not** put parts in an oven to cure – prior to totally achieving “**Dry to Touch**”.
 - ✓ **NOTE!** An ambient 5 day cure will result in a tougher & durable finish than oven curing, as the solvents leave slowly vs. being thermally forced out through the coating, opening micro-pores.

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