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Supercoat W

Forms Flexible, Tough, Enamel-like Supercoat on Fe/Cr-Ni Metal Surfaces after One-time Bake-on

Supercoat W is a water-based aqueous coating that, after applying, requires a one-time "bake-on" at ≥ 850 C and then can be used in any atmosphere at or below 850 C. Supercoat W is best applied by air spraying. After "bake-on," a remarkable, flexible, tough coating results that provides protection and electrical insulation.

Key Attributes

Enamel-like Supercoat For Metals Containing Chromium and/or Nickel with Iron (Not for carbon-steel)

- Stainless (all varieties, including 304, 310, 316, 430, 439)
- Haynes Alloy 214 • Inconel 718 • "White" Cast Irons HC15 and HC28 • Ni-Hard Cast Iron
- H13 Tool Steel

Forms Remarkable, Fantastic, Tough Supercoat That Can Be Used To:

- Seal Surfaces with an Impervious layer • Provide flexible coating • Yield electrical insulating coating
- Allow Thermal Cycling & Air Quenching

Ideal Uses

- Reduces/stops Gaseous Attack & Provides Corrosion Resistance
- Provides High Emissivity and Electrically Nonconducting Surface, Good from Ambient to 850 C
- Mufflers/Exhaust Components
- Gas Burners
- Protects Furnace Parts etc.
- Base/primer Coat for Topcoating with Paintable Coatings, like BN

Use Notes

1. Resuspend by shaking or rolling until mixing cylinders are heard and the paint is uniformly suspended.
2. Clean surfaces to be painted of any oils dirt, scale, etc. Light surface roughening can improve adherence.
3. For best results, heat the surface to 150-200 C and apply a thin, uniform layer by air-spraying onto the heated surface. For small parts, SPRA-TOOL with red nozzle works well from thepaintstore.com. For larger parts, use pressure-fed air sprayer (See our videos & Painting Instruction Guide). Dipping can work, if a uniform layer is achieved.
4. One-time "Bake-on": Heat coated part to 850-925 C for 30 minutes to 1hr. to "set" Supercoat. Furnace cool to room temperature. Parts are now ready-to-use for thermal cycles from ambient to 850 C. Note: After heating to 850 C for 1/2 hour, coating is matte/brownish color. After heating to 950 C for 1/2 hour, coating is black and, if thick enough, glossy appearing.



Specifications

Active Ingredient	Mixed Oxides
Max Use Temperature	1562 F/ 850 C
Use Atmosphere	All
Fired Composition	Mixed Oxides
Liquid Carrier	Water
Brookfield Viscosity (cps)	85-300@3/60
Specific Gravity	1.021
Color	Black
Shelf Life (months)	>12
Coverage (ft ² /gal)	100-400
Coating pH	8-9
H F R Ratings	1-0-0
Substrate Use	Metals

Other: Requires one-time "Bake-on" (after applying and drying) to 850-925 C for ≥ 30 minutes. Thickness typically can be varied from 0.2 to 2 mils (0.0002 to 0.002 inch) depending on initial dry layer thickness.

Sizes and color

Product is black/dark-colored:
 Standard Sizes: 1 gallon Nalgene container
 1 quart Nalgene container

Safety Information

- Consult SDS before use.
- Avoid breathing of spray/vapors. • Avoid freezing
- For Industrial Use only.

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