

APPLICABLE STANDARDS

ASTM International (ASTM)

- ASTM D4176 - Standard Test Method for Free Water and Particulate
- ASTM D3359 - Standard Test Methods for Measuring Adhesion by Tape Test
- ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus
- ASTM D2794 - Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
- ASTM D2240 - Standard Test Method for Rubber Property - Durometer Hardness
- ASTM D1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes
- ASTM D1735 - Standard Practice for Testing Water Resistance of Coatings Using Water Fog Apparatus
- ASTM G85 - Standard Practice for Modified Salt Spray (Fog) Testing

Test & Method	Results
ASTM D4176 Appearance	Clear; free from impurities
ASTM D3359 Adhesion	No peeling
ASTM B117 Salt fog test; salt @ 95 degrees F (35 degrees C)	
Aluminum	Passes 1000 hours
Stainless Steel	Passes 1000 hours
ASTM D2794 1/2" Mandrel Bend Test	Passes 180 degrees
Direct and reverse impact @ 80 lb (36 kg)	No peeling; no lifting
ASTM D2240 Hardness	Rated 2H
ASTM D1308 Chemical resistance	Passes - No discoloration; no blistering
ASTM D1735 Humidity resistance	Passes 1000 hours (100% RH@100F)
ASTM G85 Prohesion	Passes 2000 hours
Food Grade	Letter of Certification Available
Anti-microbial	Optional anti-microbial product

BASIC USE

Manufactured by HBI, Inc., Nyalic[®] is a clear polymeric resin coating that protects against chemical and environmental corrosion on ferrous and non-ferrous metals, galvanized, anodized and powder coated surfaces, as well as restores oxidized painted surfaces. Designed to withstand extreme temperatures and UV rays, this surface protectant is ideal for highly moist or corrosive environments and performs at film thicknesses as low as 5 microns. Nyalic is effective for environments exposed to acids, salts, urea, fly ash, mag chloride, lime, water, snow, ice, and sea air. It can be applied by brush, roller or sprayer system.

Nyalic is proven for a range of surfaces:

- Metal, including stainless steel, copper, bronze, aluminum
- Anodized metals
- Galvanized metals
- Chromed metals
- Polished, milled or brushed finishes
- Painted surfaces
- Fiberglass or plastic
- Electrical connections
- Mechanical connections

COMPOSITION & MATERIALS

Nyalic is an ultra-thin proprietary formulation of polymeric resins.

TYPES & SIZES

Standard and anti-microbial formulas of Nyalic are offered in 1 gallon (3.79 L) containers and 12 oz (340 g) aerosol cans.

COLOR

Nyalic is clear.

BENEFITS

- Protects and seals metal surfaces to prevent corrosion and staining
- Provides protection against chemicals, including acids, salts, urea, fertilizer, fly ash, and lime
- Protects against salt water, sea air and harsh chemical cleansers
- Resists ultraviolet rays
- Protects paint against oxidation
- Remains clear - does not yellow
- Resists dirt and repels water
- Withstands temperatures up to 350 degrees F (177 degrees C) and under 0 degrees F (-18 degrees C)
- Remains thermally stable and flexes with the metal surface to prevent cracking and peeling

PHYSICAL PROPERTIES

- Thermally stable to 350 degrees F (177 degrees C)
- Flexes with substrate under 0 degrees F (18 degrees C)
- Dries clear
- Acid-resistant
- Salt-resistant
- UV-resistant
- Self-leveling
- Protects against oxidation
- Protects against moisture
- Non-conductive
- Coverage - 1 gallon (3.79 L) covers as much as 1200 ft² (110 m²)

LIMITATIONS

Solvent-based chemicals can damage Nyalic-coated surfaces. Avoid using solvent-based cleaning solutions. Damaged surfaces can be repaired with Nyalic aerosol can.