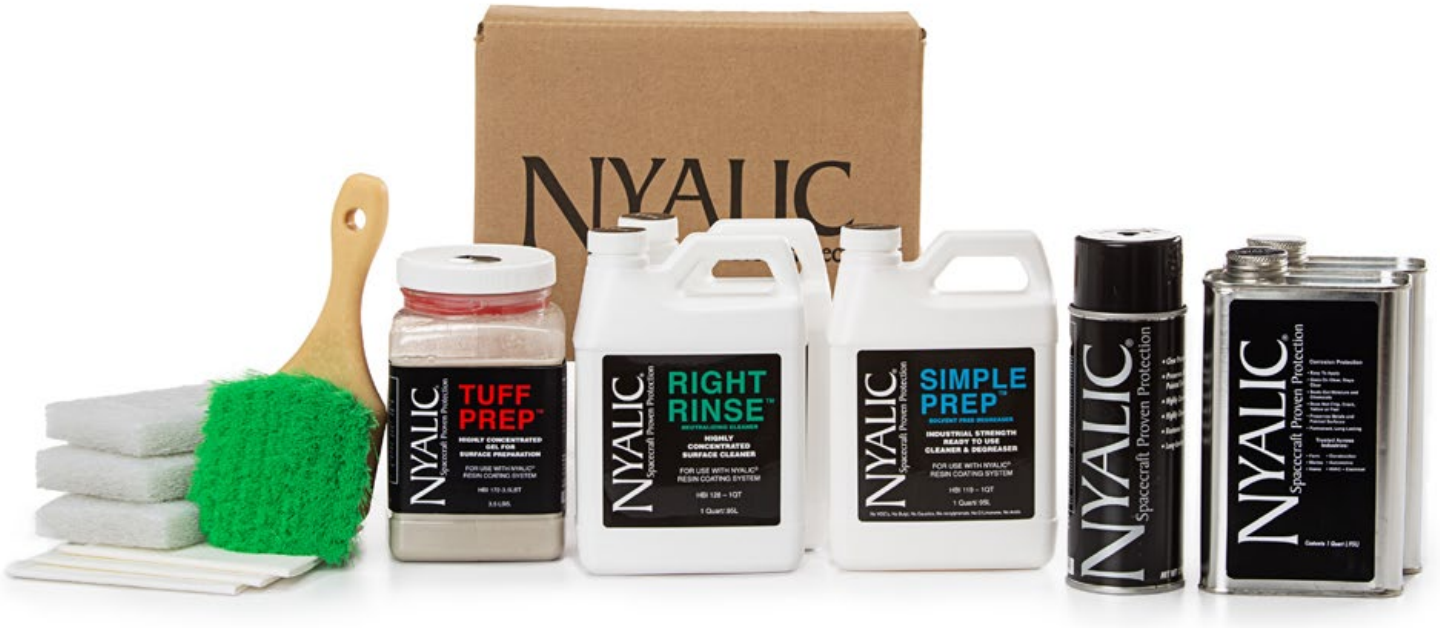
TECHNICAL DATA SHEET

NYALIC
Spacecraft Proven Protection



PRODUCT DESCRIPTION / BASIC USE

What is it?
Nyalic is a water-clear, flexible, hard-coat resin that provides permanent clear coat protection. It is not a wax, paraffin, polish or any other type of sacrificial coating. When properly applied, it will not yellow, crack, peel or flake.

What does it do?
It forms a clear seal to prevent water, dirt and corrosive chemicals from reaching the underlying bare metal or painted surface. The protective barrier inhibits paint oxidation, metal corrosion, pitting and staining caused by external attacks.

Where is it used?
Nyalic is suited for commercial and industrial equipment working in or in close proximity to highly corrosive chemicals like salt, fertilizer, phosphate and potash. Nyalic is also used in marine, transportation and architectural markets to protect from harsh environments, extend operating life and increase residual value of mission critical assets.

INDUSTRY APPLICATIONS

Construction | Agriculture | Marine | Landscape | Transportation | Recreation | HVAC | Specialty applications

SUBSTRATES

Nyalic can be applied over ferrous and non-ferrous metals, galvanized, anodized, powder coated and painted surfaces as well as most plastics and fiberglass. Nyalic is non-conductive and static free and is also used to protect circuit boards, electrical components, radiators and mechanical connections. When used to isolate and protect dissimilar metals, Nyalic prevents corrosion caused by electrolysis.

PREPARATION

Surfaces must be prepared and cleaned correctly before application.

Step 1: Remove loose rust, if any. Aged surfaces must be free of chalk, dust, dirt and oxidized paint.

Step 2: Wash surfaces with Simple Prep™, Right Rinse™ and/or Tuff Prep™ as needed to remove all traces of mill oils, grease, dirt, silicone, wax, polish and oxidation. Refer to instruction pages for particular surfaces.

Step 3: Surface must be completely dry. Make sure areas that trap water are dry.

Pro Tip: Hot water pressure washing improves the surface preparation.

APPLICATION & FLASH OFF

Tools
Apply Nyalic with aerosol can, HVLP spray, solvent-safe polyfoam sponge or brush, lint free white cloth.

Temperature

The application temperature should be between 50°F and 95°F (10°C – 35°C) with the dewpoint and temperature not less than 5°F difference.

Do not apply at temperatures below 45°F (7°C), if the surface temperature is above 110°F (43.3C) or if the ambient temperature is within 5°F (-15°C) of the dewpoint.

Coating

Generally one coat is sufficient. Two coats recommended for corrosion protection. Three suggested for any surface that may be submerged.

Wet application rate ½ mil.

Nyalic is a homogenous solution. No mixing, thinning, stirring or shaking is required and is not advised.

SPRAYGUN

	Spray tip	Spray pressure	Aircap
HVLP/Gravity	1.0 mm – 1.4 mm*	25 psi (1.72 bar; 172.4kPa)	Fine finish

	Oil filter	Water filter	Hose
Compressed Air	Required	Required	Dedicated hose recommended

Airless not recommended
Spray tip (1.0 preferred)

DRYING TIME

Touch dry	Hard dry	Dry cure
10-15 minutes	**24 hours**	**4 days**

Do not expose a Nyalic-coated surface to a moisture event for at least 48 hours.

RECOAT

Apply a second coat after the product is dry to the touch but before one hour of curing has elapsed. After one hour, you wait at least 24 hours before applying a second coat. If a second coat is applied after 24 hours, wipe down the surface with a very lightly moist cloth to remove any dust that may have settled on the surface.

When coating any surface that may be submerged, apply a third coat. The third coat should be applied after a 24-hour period of the second coat becoming dry to the touch.

NYALIC® Spacecraft Proven Protection

DRY FILM BUILD

Single coat 5µm

POT LIFE

Unlimited. Unused, uncontaminated product may be returned to original container and tightly sealed.

TECHNICAL PARAMETERS

Volume solids	15-25%
Coverage	1200 ft²/gallon
VOC	3.34 lbs/gal (400g/L)
VOC's as applied	0.278 lbs/100 ft² @ 1200 ft²/gal
Finished appearance	Clear
Color	Water clear
Odor	Aromatic
Weight	10.1 lbs/gal
Flash Point	102°F (38.9°C)
Vapor pressure	8.4 @ 68°F (20°C)
Viscosity	1.29cSt @ 104°F (40° C)
Aniline Point	< 27°F (-3°C)
Kauri Butanol	60 Kb
Adhesion	Rated 4A
Resistance Properties	Acid – Excellent Salt – Excellent Fertilizer – Excellent Weathering – Excellent Impact – Excellent Humidity - Excellent Immersion – Very good Abrasion – Very good Solvent – Good to splash for common solvents Heat – Up to 350°F (177°C)
Food Grade	In cured form; letter available
Antimicrobial	Formulation available
Non-conductive	Performs as a conformal coating

HEALTH & SAFETY

It is strongly recommended to use appropriate personal protection during application to avoid respiratory, skin and eye irritation. Observe the precautionary notices displayed on the container. Refer to product SDS.

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