



Nason® Industrial NI-610 High Performance 2K PU Topcoat

Product Description

NI-610 is a "High Performing" 2 pack (2K) high gloss, isocyanate cured polyurethane topcoat based on Axalta owned technology. The resulting durable coating delivers excellent weathering and anti-corrosion properties (when applied over the recommended primers & Primer surfacers) and is suitable for use where a high performance type of 2K PU coating is required.

Gloss

High.

Note: To adjust gloss level, addition of ST600-002 Nason® Industrial Matting Agent is needed Refer Table 1, below.

Colour

Various, AS 2700 colours

Product Features

- Excellent gloss & colour retention
- Excellent flow and application properties
- Hard and abrasion resistant
- Excellent chemical resistance
- Fast dust free drying time
- Range of hardeners and thinners

Product Benefits

- Long lasting film integrity & durability
- Superior quality and high gloss finish
- Extended service life
- Use for manufacturing & material handling
- Fast turnaround time & high productivity
- Flexibility in application & performance

Product Uses / Applications

The product provide excellent topcoat appearance and protection of properly primed metal surfaces in industrial environments. It is suitable for painting commercial vehicles such as buses, refurbishment of commercial vehicles, machinery and any article that requires a better than standard style 2K PU performance. This topcoat can be applied over properly prepared Nason® Industrial primers and surfacer coated substrates

- Commercial transport & components;
- Mobile mining, earth moving, construction and agricultural equipment & attachments;
- Fabricated structural steel, handrails;
- Material handling equipment;
- Industrial plant equipment and machinery (including chemical plants);
- Topsides of marine pleasure craft;
- Pipeline and tank exteriors.

Not Recommended for

Immersion service.

Application over alkyd primers and TPA coatings.

Physical Data (depending on colour)

	ST100-610	ST200-545	RTS
Volume Solids (average):	42.5%	64.7%	43 - 47%
Weight Solids (average)	49.4%	70.9%	49 – 63%
VOC (average):			476 – 502 g/L
Specific Gravity (average):	0.99 g/mL	1.06 g/mL	0.99 – 1.30 g/L
Dry Film Thickness:	40 - 60 µm		
Theoretical Coverage (average):	8.4 – 9.2 m ² /L (at 50 µm DFT)		
Flash Point:	34°C	38°C	



Dry Time

Air Dry at 20°C & 50% RH at recommended film thickness:

Dust Free: 30 minutes Dry To Handle: 6 - 8 hours
 Hard Dry: 24 hours

Bake:

45 minutes @ 60°C after 10 – 15 minutes flash-off @ 20°C.

Surface Preparation

Previously painted surface:

Clean using an Axalta recommended wax and grease remover. Lightly sand or scour with 3M Scotch Brite Pad grey, and subsequently re-clean all the areas before the application of Nason® Industrial NI-610 High Performance 2K Polyurethane Topcoat.

Test suitability of the existing coating before application of Nason® Industrial NI-610 High Performance 2K Polyurethane Topcoat

New work:

To be applied as a finish coat over an Axalta recommended primer e.g. 719-01 / 719-05 Nason® Industrial All-Purpose Etch Primer or 650-04 Nason® Industrial 2K ZP Epoxy Primer.



Application

Mix 4:1 with ST200-545 Nason® Industrial 2K PU HS Activator or ST200-546 Nason® Industrial 2K PU HS Slow Activator, and 0 – 20% Nason® Industrial ST300-501 Slow Dry Thinner or Nason® Industrial ST300-502 Standard Thinner (no thinner required for airless application).

Pot Life: 4 hours @ 10°C, 3 hours @ 25°C, 1 hour @ 40°C

Gun Setup

• Pressure Pot:	1.1 mm	2.5 – 3.5 bar	40 – 50 psi
• Conventional:	1.3 – 1.4 mm	2.5 – 3.5 bar	40 – 50 psi
• Airless Spray:	0.23 – 0.30 mm	180 bar	
• HVLP:	1.3 – 1.4 mm	0.7 bar	10 psi
• Number of Coats:	2 - 3		
• Flash-off Between Coats:	5 - 10 minutes		



Application Conditions:

Do not apply if material, substrate or ambient temperature is less than 10°C or above 45°C. The Substrate must be at least 3°C above the dew point. Relative humidity should be below 90%.

Cleanup Solvents

Axalta recommended gun cleaning thinner.

Dry Film Characteristics

Maximum Service Temperature:	90°C (continuous service)
Exterior Exposure:	VERY GOOD
Water Resistance:	VERY GOOD
Acid / Alkali Resistance:	VERY GOOD
Oil and Petrol Resistance:	VERY GOOD
Abrasion Resistance:	VERY GOOD

Table 1

ST620 : ST002 Mixing Ratio	WHITE/PASTEL Colours	OTHER Colours
wt/wt	Average gloss @60°	Average gloss @60°
0 - 100	TBA	TBA
20:80	TBA	TBA
40:60	TBA	TBA
50:50	TBA	TBA
60:40	TBA	TBA
70:30	TBA	TBA
80:20	TBA	TBA
90:10	TBA	TBA
100 - 0	TBA	TBA

Recoating

Thoroughly scuff the surface with 3M Scotch Brite Pad grey.
Recoat with 1 – 2 coats of, Nason® Industrial NI-610 High Performance 2K Polyurethane Topcoat, as necessary.

Shelf Life

12 months minimum in sealed original container.
Store at room temperature away from direct sunlight.

Availability

Nason® Industrial Tints		ST-XX
Nason® Industrial High Performance 2K PU Topcoat	20 L	NI-610
Nason® Industrial ST610 High OH PU Binder	10 L	ST100-610
Nason® Industrial ST610 High OH PU Binder	20 L	ST100-610
Nason® Industrial 2K PU HS Activator	4 L	ST200-545
Nason® Industrial 2K PU HS Slow Activator	1 L	ST200-546
Nason® Industrial ST501 Slow Dry Thinner	4 L	ST300-501
Nason® Industrial ST502 Standard Thinner	4 L	ST300-502
Nason® Industrial ST002 Matting Agent	1 L	ST600-002



This product is intended for use by professional trade and industrial applicators in compliance with relevant Health, Safety & Environmental standards and legislation.
The applicator must use suitable Personal Protective Equipment (PPE), in particular full body coverall, gloves, goggles and air respirator. Provide adequate ventilation when using in confined spaces

This product, when mixed with hardener will contain free isocyanates. For more detailed information, refer to Material Safety Data Sheets of the products used.

This Technical Data Sheet is issued by Axalta Coatings Systems as a guidance only. The information contained herein is current and correct to the best of our knowledge at the time of issuance.
The user must ensure suitability of the product and its performance for the application at hand. Axalta Coating Systems assumes no responsibility nor provides any warranty.