

NON-ISOCYANATE (NISO) WATER-BASED COATINGS





The Sayerlack Research and Development team has always been committed to the reduction of harmful material, while also improving chemical and physical performance and also ensuring the productivity of our customers, keeping a constant eye on sustainability.

With this approach, two NISO products (isocyanate-free) were created:

- AN10XX/NN-BB two-pack water-based converter
- AR78XX/NN-BB two-pack UV water-based converter.

Compliance and Future-Readiness

The regulations that define substances that are dangerous to health and govern their use are constantly evolving; our mission is to provide our customers with products that are not only able to comply with current regulations, but also ready to comply with more restrictive ones that may come into force in the future.

Advantages of NISO Technology

The advantages that the use of NISO technology on water-based products entails are many:

Long pot-life: the pot-life of NISO products is extremely long: it is guaranteed for several weeks, while the pot-life of a standard catalyzed water-based product lasts a few hours. This feature translates into a considerable advantage from the point of view of waste: the product can be stored and reused at a later time. Tests on coloured products have found perfect colour stability even after weeks.

Exceptional chemical resistance: tests on stains have shown exceptional resistance, even on dark stains (coffee, wine and blueberry) and high resistance to hand cream: this last data makes the product suitable for use in kitchens, which often have a pull-off opening.

Sustainable production: NISO products have a more sustainable production than isocyanates: analyses on raw materials, provided by the producers, confirm that the carbon footprint of the production of this type of crosslinker is lower than that of isocyanate.

NEW TWO-PACK WATER-BASED NISO CONVERTER/TOPCOAT AN10XX/NN-BB

Pigmented two-pack water-based NISO topcoat for indoor, dual-cure. The hardener is not isocyanate and a specific crosslinker is utilized without any labeling in the SDS.

Adding 5% AY0010/00 you reach very high chemical resistances particularly to coffee, mustard and hand cream.

AN10XX/BB (white) can be tinted with XA2006/XX water-based pastes, up to a maximum of 4% for the light shades formulated with the white pigmented base.

CEN/TS 16209 level B (Horizontal applications)	Contact time	Min. Required	Results (White)	Results (Green)
Acetic acid (10% m/m)	1 h	4	5	5
Acetone	10 s	2	4	4
Ammonia (10% m/m)	1 h	4	5	5
Citric acid (10% m/m)	1 h	4	5	5
Detergent solution	6 h	4	5	5
Coffee	6 h	4	4	4
Ethanol (48% V/V)	1 h	4	3	3
Liquid paraffin	6 h	4	4	4
Distilled water	24 h	4	5	5
Basic synthetic sweat	6 h	4	5	5
Acetic acid (10% m/m)	24 h	4	5	5

BENEFITS	FEATURES
No hazard labels in SDS	NISO product
Enhanced durability	High chemical resistance
Easily pigmentable	With XA2006/XX pastes





TECHNICAL DATA

- Technology: Water-based
- Product type: Two-pack Converter/Topcoat
- Available colours: Clear/white (pigmentable)
- Available in gloss: 25
- Application: Automatic spray, Airmix
- Tinting method: Suitable for adding XA2006/XX pastes

Application System

Product Name	Product Number	Coverage	Drying Time	Comments
Two-pack water-based NISO converter	AN10XX/BB (white)	100-120 gr/m ²	Dust free: 40' Touch dry: 80' Stackable: 24 hours	On Polyester basecoat properly dried or on sanded melamine paper

*Values and content will change depending on Technology and Segment

NEW TWO-PACK WATER-BASED UV NISO CONVERTER /TOPCOAT AR78XX/NN-BB

Pigmented UV two-pack water-based NISO topcoat for indoor, dual-cure. The hardener is not isocyanate and a specific crosslinker is utilized without any labeling in the SDS.

Adding 5% AY0010/00 you reach very high chemical resistances particularly to coffee, mustard and hand cream.

BENEFITS	FEATURES
No hazard labels in SDS	NISO product
Good mustard and hand cream resistance	High chemical resistance
Easily pigmentable	With XA2006/XX pastes

TECHNICAL DATA

- **Technology:** Water-based UV
- **Product type:** Two-pack Converter/Topcoat
- **Available colours:** Clear/white (pigmentable)
- **Available in gloss:** 10, texturized
- **Application:** Automatic spray, Airmix
- **Tinting method:** Suitable for adding XA2006/XX pastes







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