

TECHNICAL DATA

PRODUCT CODE/NAME	LXV 40x SERIE – IDROLACK
DESCRIPTION	1K NEUTRAL WATER BASED CONVERTER FOR MATT TOP COATS FOR INTERIOR
THINNER(S)	Ready to use (eventually with 5% of water)

MAIN FIELD OF USE:

It is a waterborne converters serie, designed for making of pigmented W.B. topcoats, by the addition of W.B. Pastes LXWxxx, in ratio CONVERTER:PASTE ---> 80:20.

The obtained products are suitable as a finishing treatment for furniture, doors, chairs and parts worked with lathe, prepared with basecoat treatment (WB or also SB based) and whenever a minimum emission of VOC is required, keeping good features of mechanical as well as physical-chemical resistance.

PROPERTIES:

Completely odorless, it has good hardness, covering, elasticity and softness to the touch. Easy to be applied by spray, it has good flow and verticality.

GLOSS LEVELS AVAILABLE:

LXV 403	30±2	LXV 404	20±2	LXV405	10±2
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CHEMICAL-PHYSICAL PROPERTIES:

Specific Weight (at 20°C/68°F)	8,518 lb./USgal ± 0,10	VOCs (lb./USgal)	0.376 ÷ 0.418
Specific Weight (at 20°C/68°F)	1.020 g/l ± 10	VOCs (g / l)	45.0 ÷ 50.0
Solid Content % by Weight	29÷31% ± 1	VOCs (%)	4.40 ÷ 4.75
Solid Content % by Volume	27÷29% ± 1		
(Average theoretical value according with ISO 2322-3:2015)			
Viscosity Brookfield (at 20°C/68°F)	3500÷4000 mPas/sec	Shelf Life see notes	18 months
Theor.Coverage # (1 dry mil)	393 ÷ 449 sqft/USgal		
# value referred to PART A + 5% WATER			

REMARK:

As the product belongs to a tintometric system, the chemical-physical characteristics can change according to the obtained color. The above information refers to the clear converter as furnished. Due to its characteristics, the product cannot be used as transparent topcoat.

PREPARATION OF THE PRODUCT:

	by volume		by weight	
LXV 40x	10 parts	100%	10 parts	100%
Water (eventually)	0 - 0.5 part	0 - 5%	0 - 0.5 part	0 - 5%

REMARK: it is possible to implement chemical-physical resistances and mechanical properties (such as abrasion resistance) by adding the 5% of LCW015 or LCW013 hardener or 2% of LXA970 crosslinker.

Make sure you have well homogenized the products (varnish and hardener) before the use.

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DRYING-TIME (at 20°C/68°F)

Dust-free	25 ÷ 35 minutes
Dry to touch	1 ÷ 2 hours
Dry to handle	8 ÷ 12 hours
Thoroughly dry	16 ÷ 24 hours

These values may be affected by temperature and weather condition, or by unfavorable environmental conditions. A good ventilation promotes more fast drying in depth.

APPLICATION:

By spray with airless or air mix.

Suggested nozzle: for airless 09 fixed or 015 adjustable at 4 atm/bar of pressure; for normal spray gun 2.0 mm. at 3.5-4 atm/bar of pressure.

Thanks to its viscosity it is possible to apply 4-5 wet mils thickness vertically. We suggest not applying higher quantity as this may jeopardize the verticality.

To increase the chemical-physical and mechanical resistance, it can be added by LCW015 or LCW013 (Hardener for WB products), at 5%, or LXA970 (Crosslinker) at 2%. LCW015 is the faster in drying, LCW013 is a little better in reticulation, LCA970 has a longer Pot-life.

It is important that the temperature of the environment of application and drying is not less than 5°C (41°F) and that the relative humidity does not exceed 80%.

Under conditions of critical humidity is required an airflow, preferably warm, to allow a perfect drying.

In winter period, in case of low room temperature, it is suggested the use of a preheater set between 35° and 45°C (95° to 110°F).

In warmest season it is recommended the dilution with 5% of water.

QUANTITIES:

1st coat (wet mils)	4 ÷ 5
Maximum amount	5 mils

DILUTION (eventually): 5%

SUGGESTED CYCLES:

Substrate:	Various veneers or solid woods, MDF	
Primer:	LVT500 or LVT555 – IDROPRIMER	1÷2 layers
Sanding:	280-320 grain paper	
Top-coat:	LXV40x + LXWxxx pastes – PIGMENTED IDROLACK	1 layer

The pigmented WB topcoats formulated with LXV40x converters can also be applied on melamine, after appropriate sanding (320-400).

Due to the differences that exist between different types of melamine, or even between different batches of the paper itself, it is appropriate to experimentally verify the actual adhesion before proceeding to serial production.

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STORAGE:

The product, stored in the original cans tightly closed, preferably at a temperature between 10°C and 30°C (50°F to 86°F), has a shelf life of 18 months.

KEEP AWAY FROM FROST.

AVOID STORING THE PRODUCT IN TEMPERATURES BELOW 5°C/41°F.

SPECIAL WARNING**Gluing**

Check the type of glue used before varnishing the pieces with water borne products: Glues having a holding value below B3, can cause the following problems:

- breakaway of the veneering from the substrate, blistering and ensuing damage of the varnished piece
- pore raising
- film bleaching caused by re-solubilization of the glue resins into the water borne varnish.

Following coats

Comply with the drying time between the basecoat and the finish as pore raising may occur if pores are too much reduced.

Blocking

The product is provided with a good resistance against blocking; it is however a thermoplastic varnish; therefore, it is necessary to evaluate each time storage and stacking conditions of the varnished piece avoiding the contact in-between varnishes.

Tannin

Check very carefully the type of timber to varnish.

In fact, oak, ash, chestnut, walnut, iroko, niangon, meranti, cedar, teak and hard exotic timbers in general, contain inhibiting substances, which tend to leak if you use varnishes reducible by water.

Cleaning

As water borne varnishes have lesser resistance against aggressive chemical agents compared to traditional varnishes, we recommend to clean the piece with water and a neutral detergent. Ammonia and/or alcohol-base solutions can seriously damage the varnish film. Should aggressive solutions be spilled such as liquors, and similar drinks and/or very hot beverages like coffee, tea etc., we recommend to clean quickly the surface with a cloth soaked in water. The use of coasters can become much important in order to save the furniture varnished with water borne products.

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IMPORTANT: The information contained in this technical data sheet are based on the average results obtained in our laboratories and is the best experience we have acquired in the most rigorous manner, thorough tests and checks.

Nuova S.I.V.A.M. guarantees the consistency of the chemical/physical characteristics of its products within the tolerances indicated above.

The final result is the full responsibility of the user who, before using the product, must check that it meets his requirements in terms of safety, application equipment, support material to paint, and environmental conditions.

The information given herein is based on a temperature of 20°C/68°F and 70% of relative humidity.

Nuova S.I.V.A.M. technical and commercial network is at your complete disposal to deal with any questions regarding how to correctly apply and use our products.