

TECHNICAL DATA

PRODUCT CODE/NAME	<b>LWA 12x – IDROPAC serie</b>
DESCRIPTION	CLEAR WB TOP-COATS 2K INTERIOR
HARDENER(S)	LCW 015 at 10%
THINNER	Water (see <i>PREPARATION OF THE PRODUCT</i> )

**MAIN FIELD OF USE:**

Two pack water borne acrylic clear top coats serie. It is suitable as a finishing treatment for furniture, kitchen cabinets 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 sanding, covering and elasticity. Easy to be applied by spray, it has good flow and holds well vertical.

**CHEMICAL-PHYSICAL PROPERTIES:**

<b>Specific Gravity</b> (at 20°C/68°F)		<b>Viscosity</b> (at 20°C/68°F)	
Specific Gravity lb./USgal	8,762 ± 0,100	DIN Ø 6	50" ± 2"
Specific Gravity g / l	1.050 ± 10		
<b>Solid Content by Weight</b>	34,5% ± 1	<b>Solid Content by Volume</b>	31% ± 1
		Average theoretical value according with ISO 2322-3:2015	
<b>VOCs Actual (MATERIAL)</b>		<b>VOCs Regulatory (LESS WATER and EXEMPT SOLVENTS)</b>	
VOC lb./USgal	0,414 ÷ 0,431	VOC lb./USgal	1,155 ÷ 1,188
VOC g / l	49,6 ÷ 51,6	VOC g / l	138,4 ÷ 142,4
VOC %	4,68 ÷ 4,88		
<b>Theor.Coverage</b> - 1 dry mil (value referred to LWA12x + 10% LCW015 + 5% water)			449 ÷ 471 sqft/USgal
<b>Pot-life</b>			almost 3 hours
<b>Shelf Life</b>			18 months

**PREPARATION OF THE PRODUCT:**

	by volume		by weight	
LWA 12x SERIE	10 parts	100%	10 parts	100%
LCW 015	1 part	10%	1 part	10%
Water	0.5-1 part	5-10%	0.5-1 part	5-10%

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

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**GLOSS AVAILABLE**

LWA121	50 ± 2
LWA122	40 ± 2
LWA123	30 ± 2

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**DRYING-TIME** (at 20°C/68°F)

Dust-free	almost 30 min.
Dry to touch	almost 3 hours
Thoroughly dry	24 hours

These values may be affected by temperature and weather condition, or by unfavorable environmental conditions. The drying time may vary by using a warm air-drying oven.

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**APPLICATION:**

By spray with airless or air mix spray system.

The product, before use, must be catalysed by LCW 015. The incorporation of the catalyst can either done manually, with vigorous stirring, or, as most recommended, mixing the product using a drill fitted with an impeller for obtaining a good homogenization between the two components. Subsequently proceed with the dilution with water at 5-10%.

Do not use any preheater that would reduce the pot-life of the blended product.

The viscosity usually enables you to apply 4-5 wet mils of product without sagging problems.

A good ventilation promotes more fast drying in depth.

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.

The product cannot be used without the addition of its hardener.

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**QUANTITIES:**

1 <sup>st</sup> coat (wet mils)	4 ÷ 6
Maximum amount	6 mils

DILUTION: 5 ÷ 10%

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**SUGGESTED CYCLES:**

Substrate:	Various veneers or solid woods	
Stain process:	LAMxxx or LAWxxx series properly added by specific binders	
Primer:	LVA 100 – IDROFOND	1-3 layers
Sanding:	280-320 grain paper	
Topcoat:	<b>LWA 12x – IDROPAC series</b>	1 layer

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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.**

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**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.