NUOVA S.I.V.A.M. S.p.A.

TECHNICAL DATA

PRODUCT	**LWT 61x IDROLACK Series**
DEFINITION	WATER BASED WHITE TOP COATS FOR INTERIOR USE
THINNER(S)	Water (see *PREPARATION OF THE PRODUCT)*

MAIN FIELD OF USE:
Single component water borne white top coat. For finishing topcoat for furniture, cabinets, 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 holds well vertical.

CHEMICAL-PHYSICAL PROPERTIES:

Specific Weight (at 20°C/68°F)	9.770 lb/USgal ± 0.10	VOCs (%)	5.50 ÷ 6.30
Specific Weight (at 20°C/68°F)	1170 g/l ± 10	VOCs (lb./USgal)	0.280 ÷ 0.285
Solid Content % by Volume	%	VOCs (g / l)	65.4 ÷ 74.2
(Average theoretical value according with ISO 3233-3:2015)			
Solid Content % by Weight	42% ÷ 43%		
Viscosity DIN Ø 6 (at 20°C/68°F)	60" ± 2	Pot Life see notes	n.a.
Viscosity Brookfield (at 20°C/68°F)	n.a.	Shelf Life see notes	12 months

PREPARATION OF THE PRODUCT:

	by volume			by weight	
LWT 61x	10 parts	100%		10 parts	100%
Water	0,6 parts	6%		0.5 part	5%

GLOSS AVAILABLE

LWT 611	10 ± 2
LWT 612	20 ± 2
LWT 613	30 ± 2
LWT 614	40 ± 2

Follows TDs LWT 61x

DRYING-TIME (at 20°C/68°F)

Dust-free	almost 20 min.
Dry to touch	50 ÷ 60 minutes
Dry to handle	almost 8 hrs.
Thoroughly dry	over 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.

APPLICATION:
By spray with airless or air mix spray system.
In winter periods, with low room temperature it is suggested the use of a preheater set between 35° and 45°C. (95°F÷113°F)
In order to improve the characteristics of hardness and chemical resistance, it is possible to add 1% of LXA970.
In warmest season, it is recommended the dilution with 5% of water.
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.

QUANTITIES:

1st coat (wet mils)	4 ÷ 6
Maximum amount (wet mils)	6
DILUTION:	0 ÷ 5%

SUGGESTED CYCLES:

a)	Substrate:	Various veneers, solid wood or MDF	
	Primer:	LVT 500 or LVT 550 – IDROPRIMER	1-2 layers
	Sanding:	280-320 grain paper	
	Topcoat:	**LWT 61x series – IDROLACK**	1 layer

STORAGE:

DO NOT STORE THE PRODUCT IN TEMPERATURES BELOW 5 ° C (41°C).

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, iroko, niangon, meranti, cedar, and hard exotic timbers with large pore generally contain inhibiting substances, which tend to leak if you use varnishes reducible by water. This inconvenience does not occur always and therefore it is difficult to explain it or to find a really effective remedy. If many tannin leaks occur (small black cylindrical “vulcanoes”), we suggest to sand the surface and apply a new layer of finish.

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.

NUOVA SIVAM S.p.A. • **v. Monviso, 10 • 20010 BAREGGIO (MI) • tel. 02/903041 • fax. 02/9014289 • http://www.sivam.it • e-mail:** info@sivam.it