

TECHNICAL DATA

PRODUCT CODE/NAME	<b>LWT 65x SERIE – IDROLACK PLUS</b>
DESCRIPTION	WHITE WB TOP-COAT INTERIOR
THINNER(S)	Ready to use (eventually with 5-10% of water or LZD786)

**MAIN FIELD OF USE:**

Single pack water borne white top coat serie used in the painting of high-quality furnishing elements, especially for items subjected to particular and severe chemical-physical stresses such as shelves and kitchen furniture.

The product is used as a finish on substrates previously prepared with basecoat treatment (WB or also SB based) and well sanded.

**PROPERTIES:**

The product, completely odorless, in addition to having excellent wetting, covering and surface hardness characteristics, provides excellent chemical-physical resistance thanks to which it is possible to protect the artifacts from the aggression of the majority of commonly used liquids, such as alcoholic cleaners and coffee.

**GLOSS LEVELS AVAILABLE**

LWT 650	75 ± 2	LWT 651	50 ± 2
LWT 652	40 ± 2	LWT 653	30 ± 2
LWT 654	20 ± 2	LWT 655	10 ± 2

**CHEMICAL-PHYSICAL PROPERTIES:**

<b>Specific Gravity</b> (at 20°C/68°F)		<b>Viscosity</b> (at 20°C/68°F)	
Specific Gravity lb./USgal	9,305 ± 0,100	DIN Ø 6	60" ± 2"
Specific Gravity g / l	1.115 ± 10		
<b>Solid Content by Weight</b>	46,5% ± 1	<b>Solid Content by Volume</b>	40% ± 1
		Average theoretical value according with ISO 2322-3:2015	
<b>VOCs Actual</b> (MATERIAL)		<b>VOCs Regulatory</b> (LESS WATER and EXEMPT SOLVENTS)	
VOC lb./USgal	0,535 ÷ 0,552	VOC lb./USgal	1,375 ÷ 1,409
VOC g / l	79,5 ÷ 81,5	VOC g / l	164,8 ÷ 168,8
VOC %	7,12 ÷ 7.32		
<b>Theor.Coverage</b> - 1 dry mil (value referred to LWT65x without any dilution)			587 ÷ 613 sqft/USgal
<b>Pot-life</b>			n.a.
<b>Shelf Life</b>			12 months

Follow TDs LWT 65x SERIE

---

**PREPARATION OF THE PRODUCT:**

	by volume		by weight	
LWT 65x	10 parts	100%	10 parts	100%
Water (eventually)	0 – 1,1 parts	0 - 11%	0 - 1 parts	0 - 10%

**REMARK:** it is possible to increase the chemical-physical resistance and in general the performances of the product by adding of LXA970 (Crosslinker) at 2%.

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

---

**DRYING-TIME** (at 20°C/68°F)

Dust-free	almost 20 min.
Dry to touch	50 ÷ 60 minutes
Dry to handle	almost 4 hrs.
Thoroughly dry	over 16 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.

In any case, it is recommended not to apply the product at temperatures below 5°C.

---

**APPLICATION:**

By spray with airless or air mix.

Suggested nozzle: for airless 009 (2,3 mm.) fixed or 015 (3,8 mm.) 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.

The product is normally ready to use, however it is possible to dilute with water or LZD786 in a ratio of 5-10% according to need.

To increase the chemical-physical resistance and in general the performances of the product, it can be added by LXA970 (Crosslinker) at 2%.

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:**

1 <sup>st</sup> coat (wet mils)	4 ÷ 5
Maximum amount	5 mils

DILUTION (eventually): 5%

Follow TDs LWT 65x SERIE

---

**SUGGESTED CYCLES:**

- |   |          |
|---|----------|
| a) Substrate: MDF                             |          |
| Primer: LVT555 – IDROPRIMER for MDF           | 2 layers |
| Sanding: 280-320 grit paper                   |          |
| Top-coat: <b>LWT65x SERIE – IDROLACK PLUS</b> | 1 layer  |
|   |          |
| b) Substrate: Various veneers or solid woods  |          |
| Primer: LVT500 – IDROPRIMER for Interior      | 2 layers |
| Sanding: 280-320 grit paper                   |          |
| Top-coat: <b>LWT65x SERIE – IDROLACK PLUS</b> | 1 layer  |

---

**REMARK:**

To maximize the quality result in the painting of MDF furniture, we recommend using the LVT555 primer, specially designed to completely isolate the substrate, allowing the top-coat to find the substrate in the best conditions for its perfect polymerization.

---

**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 12 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.

Follow TDs LWT 65x SERIE

---

### **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.

For any possible questions which has not been tackled in this technical sheet, please contact our Technical Department.

All cycles and the products proposed here are only reliable when applied on substrates having stable dimensions.

---

TDs LWT65x SERIE – 2020, September – revision NA01

**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.