

TECHNICAL DATA

PRODUCT CODE/NAME	LWM 05x SERIE – IDROFIX
DESCRIPTION	CLEAR WB SELF-SEALER INTERIOR
THINNER(S)	Ready to use (eventually with 5% of water)

MAIN FIELD OF USE:

It is a water based self-seal product, odourless, developed for coating wooden items for interior use, such as furniture and fittings, doors, turned parts, chairs, etc.
Thanks to the versatility of the products, it can be used in two coats with intermediate sanding.

PROPERTIES:

It has good coverage and softness, transparency and fast drying.
Suitable for spray application, it has good flow and very good sanding property.

CHEMICAL-PHYSICAL PROPERTIES:

Specific Weight (at 20°C/68°F)	8,518 lb./USgal ± 0,10	VOCs (lb./USgal)	0.366 ÷ 0.403
Specific Weight (at 20°C/68°F)	1.020 g/l ± 10	VOCs (g / l)	43.8 ÷ 48.3
Solid Content % by Weight	27% ± 1	VOCs (%)	4.2 ÷ 4.7
Solid Content % by Volume	25% ± 1		
(Average theoretical value according with ISO 2322-3:2015)			
Viscosity DIN Ø 6 (at 20°C/68°F)	60" ± 2" (*)	Shelf Life see notes	18 months
* except LWM050 = 45" ± 2"			
Theor.Coverage # (1 dry mil)	401 ÷ 432 sqft/USgal		
# value referred to PART A without any dilution			

PREPARATION OF THE PRODUCT:

	by volume		by weight	
LWM 05x	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 hardener.

For the glossy version LWM050 it is recommended to use LCW013 at 5%.

An alternative solution for the whole series is the use of LXA970 at 2%.

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

GLOSS AVAILABLE

LWM 050	85 ± 2	LWM 051	50 ± 2
LWM 053	30 ± 2	LWM 054	20 ± 2
LWM 055	10 ± 2	LWM 056	5 ± 1

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APPLICATION:

By conventional spray gun, airless or air mix.

Sand the substrate with sanding paper 150-180 grain, according to the essence used. If request proceed with the stain process. Then (after drying) apply the first layer (around 4-5 wet mils) in compliance with the suggested drying time. Sand with 280-320 grain sanding paper and apply the second coat with the same quantity. Maximum amount (in two coats) 10-12 wet mils.

To increase the chemical-physical and mechanical resistance, it can be added by LCW015 hardener for WB products, at 5%, during the application of the second layer. For the glossy version LWM050 it is recommended to use LCW013 (5%). An alternative solution for the whole series is the use of LXA970 (2%).

As regards the insulating power, LCW013 is more functional with respect to the tannin block and against knots, while LCW015 insulates less but is faster to dry.

LCW015 cannot however be used in LWM050 in any case.

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.

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 ÷ 5
2nd coat (wet mils)	4 ÷ 5
Maximum amount (wet mils)	10 ÷ 12

DILUTION (eventually): 5%

DRYING-TIME (at 20°C/68°F) – Used as single component

Dust-free	20 min.
Dry to touch	50 min.
Time between coats (with sanding)	max. 4 hours
Thoroughly dry	> 8 hours hrs.

These values may be affected by temperature and weather condition, or by unfavorable environmental conditions.

SUGGESTED CYCLES:

Substrate:	Various veneers or solid woods	
Stain process:	LAMxxx or LAWxxx series properly added by specific binders	
Primer:	LWM 05x – IDROFIX	1 layer
Sanding:	280-320 grain paper	
Topcoat:	LWM 05x – IDROFIX	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.

SPECIAL WARNING**Stain**

Stain must be carefully checked because bleeding phenomena are always possible.

To verify compatibility of the stain, a sample of the timber which is currently used must be colored; then drying completely.

Finally, pass a wet cotton flake on the pieces. If it is heavily stained, the stain can be easily removed by WB products; if it is slightly stained, a proof of application of the sealer can be made.

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.

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

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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.