

ILVA TECHNICAL DATA SHEET

PRODUCT SERIES:	KLIMA NANOTECH SERIES		
PRODUCT CODE:	HTM5A273, HTM5B052, HTM5B036		
DESCRIPTION:	KLIMA Superclear Ultra-Non-Yellowing Nanotechnology External Coating Water based clear topcoat, excellent clarity, filling power, weathering resistance.		
PRODUCT PREPARATION:	HTM5 Nanotech Series Water	KLIMA WB NANO-TECH CLEAR Thinner	100 parts by weight or volume 5-6 % by weight or volume
USES:	Two coats. To be used as a self-sealer or final coat over tinted impregnator or colors. Not to be used as a clear finish over natural wood. For outdoor use.		
APPLICATION SYSTEM:	Airless spray, Airmix spray, Electrostatic spray, robot spray, airless vertical spray, gravity gun, brush		
FILM THICKNESS:	Total film thickness to be applied is 14-16 wet mils in 2 or 3 coats, if necessary		
GENERAL PROPERTIES:	Specific Gravity, gr/cc		1.010+/- .03
	Viscosity as supplied (Brookfield Aspo n°4 vel 2.5)		35,000 +/- 5000 cps
	Solids, % by weight:		38 +/-2
	Thinner:	Water	
	% of dilution:		5-6% depending upon equipment
DRYING TIME: (at 20°C/68°F)	Air Dry with ventilation, dry to handle:		
	Room temperature drying @18-22°C, 64-72°F		4 hours
	Stackable after room temperature drying		24 hours with spacers
	Hot air stages tunnel drying (20-40-60°C) (68-104-140°F)		
	complete drying		2 hours
	Stackable after jet hot air drying		8 hours with spacers
	(Drying times can vary according to temperature, ventilation and relative humidity)		
TYPICAL SYSTEMS:	Substrate	Various Woods	
	Use an impregnator base tinted with PZ4 or PZ5 colors		
	Drying		
	Topcoat	HTM5 Nanotech Series	2 -3 coats
AVAILABLE SHEENS:	HTM5B052	50 Sheen	
	HTM5A273	30 Sheen	
	HTM5B036	10 Sheen	
WARNINGS:	In a coating process with professional products: -besides the product quality , the final results also depend on numerous other variables, such as environmental conditions; homogeneity in the quality of substrate; the constancy of the application cycle; the plants performance; the proper use of the products, etc. -in the process of industrial coating a certain waste product is to be considered normal and therefore not attributable to product quality -the final color is influenced by the preparation of hte substrate and the conditions of application; for this reason it is essential fo check in advance the result in terms of final use.		

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EVERY REASONABLE PRECAUTION IS TAKEN IN THE MANUFACTURE OF OUR PRODUCTS TO INSURE THAT THEY COMPLY WITH OUR STANDARDS. INFORMATION GIVEN IS CORRECT TO THE BEST OF OUR KNOWLEDGE. ANY SUGGESTIONS MADE BY US COVERING THE USE OF OUR PRODUCTS ARE BASED ON EXPERIENCE AND/OR TESTS BELIEVED TO BE RELIABLE. HOWEVER, BECAUSE THE USE OF ANY PRODUCT OF OUR MANUFACTURE IS COMPLETELY BEYOND OUR CONTROL, INCLUDING FOR EXAMPLE, THE METHOD AND CONDITIONS OF APPLICATION, NO GUARANTEE OR WARRANTY, EXPRESSED OR IMPLIED, IS MADE. MANUFACTURER'S MAXIMUM LIABILITY SHALL BE TO REPLACE SUCH QUANTITY OF PRODUCT DETERMINED BY OUR LABORATORY TO BE DEFECTIVE. USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR HIS INTENDED USE AND ASSUME ALL RISK AND LIABILITY IN CONNECTION THEREWITH.

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PRODUCT SERIES: KLIMA NANOTECH SERIES

PRODUCT CODE: HTM5A273, HTM5B052, HTM5B036, page 2

DESCRIPTION: KLIMA Superclear Ultra-Non-Yellowing Nanotechnology External Coating

WARNINGS: Our company cannot ensure the control of the coating process carried out by the user. We cannot, therefore, take on any responsibility for the final result achieved through the use of our products. On the other hand, we guarantee the consistency of the chemical and physical characteristics of the product indicated in the relevant TDS, pledging to replace if it does not correspond to the declared features.

PRODUCT PROPERTIES: Data on the chemical and physical characteristics of the product are recorded at 20°C, 68°F and 70% relative humidity

For test results, the optimum conditions of application are:

Ambient temperature between 18 and 22°C, 64-72°F

Ambient relative humidity between 65 and 70%

Substrate humidity between 8 and 14%

The conditions to be observed scrupulously are:

-Water-based products are particularly sensitive to storage conditions: temperatures below 5°C, 41°F and above 35°C, 95°F, may affect the product characteristics, making it unusable. For this reason, a water-based product should be stored indoors at temperatures not below 5°C, 41°F and not above 35°C, 95°F, in a properly ventilated area, not exposed to solar radiation.

-Always shake the products before use

-The application must not take place at a temperature lower than 15°C, 59°F or above 35°C, 95°F

-The drying should not take place at a temperature below 15°C, 59°F

-The ambient relative humidity during drying should be between 50% and 70%

-To decant paints, exclusively use containers made of suitable material, such as polyethylene and stainless steel.

-After use, we recommend that you always close the can carefully

-The end result of the coating cycle is the sole responsibility of the user, who must make sure that the product matches their needs and that environmental conditions, application, or media specifications, do not require substantial changes of use.

It is the user's responsibility to:

-Adhere to the conditions indicated above

-Comply with the rules of hygiene and safety during product application, according to the descriptions given in the safety data sheets.

-Keep from freezing

SHELF LIFE: 12 Months

STORAGE: Store in a tightly closed container at room temperatures (18 -25 °C/64 -75 °F) and protect from moisture and foreign material. Do not store at temperatures below 7°C (45°F).

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