

HIGH PERFORMANCE INDUSTRIAL WATER BASE WOOD COATINGS

IC&S P.O. BOX 10845 LANCASTER, PA 17605 800-220-4035 ILVA IVM CHEMICALS, srl INTERNATIONAL WOOD COATINGS DIV PARONA, ITALY

PRODUCT CODE:	HMM5 Series						
DESCRIPTION:	WB CLEAR SELF-SEALER VARIOUS SHEENS						
USES:		tural millwork, store f properties and filling		ffers the best in dry time	es and leveling, with		
PRODUCT PREPARATION:	HMM5 Series Water	WB Clear Self-Sea Thinner	aler	100 parts by weight 0-5 parts by weight	128 parts by volume 0-6 parts by volume		
APPLICATION SYSTEM:	Spray						
FILM THICKNESS:	4.4-5.6 mils wet						
COATS:	Two						
GENERAL PROPERTIES:	Specific Gravity, gr/cc1.040 +/- 0.02Viscosity Iso 6 cup85+/- 5 secsSolids by Weight, %, as supplied33 +/- 2 secThinnerWaterDilution0-5%						
DRYING TIME: (at 20°C/68°F)	All dry times are de Drying time at roor Drying time with wa Dust Free/time gel Dry to Touch Dry hard Stackable Sandable	n temperature arm air tunnel	flow, ambient temperatures, and humidity 2-3 hr 20-30 mins 30-60 mins 2-3 hr 6-8 hr overnight after 2-3 hrs, before applying topcoat				
GLOSS LEVELS:	HMM503610 SHEENHMM503420 SHEENHMM503330 SHEENHMM503250 SHEENHMM503160 SHEEN						
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)						
DATE OF ISSUANCE:	1-15, 3-17, 11-18, 5-19						

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PRODUCT CODE: HMM5457

DECRIPTION: WB CLEAR NATURAL EFFECT PARQUET SELF-SEALER

USES: Deisgned to be used as a 2-component self-sealer urethane ultra matte finish for flooring. May be applied by spray/roller/brush. Fast drying with soft natural effect feel. Very good wear resistance. May also be used as a 2-component system for table and desk tops. PRODUCT PREPARATION: HMM5457 W/B Clear Natural Effect Self-Sealer 100 parts by weight TXW08/TXW13 or HXS5A16 Hardener 5 parts by weight (mechanical mixing required) Water Thinner as needed (if necessary for application) **APPLICATION SYSTEM:** Airmix spray: 3.4-4.2 wet mils min-max Hand spray: 3.4-4.6 wet mills min-max Brush: 2.3-3.0 wet mills min-max Manual roller 2.3-3.0 wet mills min-max Spray - see pg 27 for additional information COATS: Two **GENERAL PROPERTIES:** Specific Gravity, gr/ml 1.032 +/- 0.030 Viscosity* (ISO 6) 24 sec +/- 2 Solids Content (% by weight) 21.1 +/- 2 Pot Life using PU Hardener 2 hours DRYING TIME: Drying schedule at room temperature (64-72°F, 65-70% relative humidity), completely drying: 96 hours (at 20°C/68°F) **Dust Free** 50 minutes Dry to Touch 75 minutes Hard dry 5 hours after 4 hours Sandable Maximum time between layers without sanding 2-3 hours Overcoatability time 8 hours Overcoatability time between layers 4-8 hours Jet hot air drying Temp: 35°C, 95°F Stackable after jet hot air drying 4 hours with spacers Please note that drying times may change with varying temperatures, ventilation and relative humidity. In particular, good ventilation promotes hard dry and and best dry times for handling and stacking. **TYPICAL SYSTEMS:** Substrate: Walnut/oak/beech/maple Stain: **PF5** Series HMM5457 (80 g/m2) Sealer HMM5457 - topcoat 5 sheen (80g/m2) Topcoat: TXW08/TXW13 or HXS5A16 must use 5% in both sealer and topcoat **RECOMMENDATIONS:** Sand using 280-320 grit stearate paper or superfine sponges or maroon Scotchbrite between coats. May be recoated within one hour of drying without sanding. Avoid high pressure or reduce speed on powered sanding equipment to avoid overheating of the waterbased product and loading up sandpaper. We recommend using stainless steel for all water-based products. If using both solvent and water-based products we suggest the following: --- from water to solvent: wash with water, then wash with solvent from solvent to water, reverse the cyle. If you find it necessary to dilute the material we suggest using de-ionized water in order to avoid problems which may arise from a high concentration of salts. Keep cans closed when not in use and wash all equipment well. Keep from freezing. Do not thin more than 5%. 12 Months SHELF LIFE: 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) DATE OF ISSUANCE: 06-16, Revised 9-16, 4-17, 3-18, 11-19, 11-21 IC & S, P.O. BOX 10845, LANCASTER, PA 17605 (800) 220-4035

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PRODUCT CODE:	HMMB05x Series					
DESCRIPTION:	Waterbase Multilayer Floor Finish					
USES:	Multilayer for parquets and stairs, open and close pore.					
FEATURES:	Excellent elasticity and floor surface resistance.					
PRODUCT PREPARATION:	HMMB05xWaterbase Multilayer Floor Finish100 parts					
APPLICATION SYSTEM:	Brush or roller					
FILM THICKNESS:	2.8 - 4.58 mils wet					
COATS:	Тwo					
GENERAL PROPERTIES:	Specific Gravity, gr/cc1.045 +/- 0.01Viscosity*18 +/- 2 secSolids by Weight, % as supplied30 +/- 2*Ford Cup #4*					
GLOSS AVAILABLE:	HMMB052 50 Gloss (Old Code TW632) HMMB054 20 Gloss (Old Code TW634)					
DRYING TIME: (at 20°C/68°F)	Dry to touch1 hourDry hard12 hoursDrying schedule by oven 25-60°C1 hourWalking on (minimum)5 days					
TYPICAL SYSTEMS:	Various woods Stain Basecoat HMMB05X 1 coat (interval between coats without sanding: 1-3 h) Topcoat HMMB05X 1 coat					
RECOMMENDATIONS:	We recommend using this product at temperatures above 15°C (60°F) and <70% humidity. Do not exceed 180 gr/cc per coat. When dilution is necessary we recommend using de-ionized water in order to avoid problems associated with a high concentration of salts. Do not exceed 10% dilution. Wash all equipemnt thoroughly before and after use.					
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 ($45^{\circ}F$)					
DATE OF ISSUANCE:	12-16, 4-17					

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PRODUCT CODE: HNS7A04

DESCRIPTION:	Interior WB Gel Stain Base				
USES:	To be tinted with PZ5xx at 2-5%. Apply to achieve a consistent uniform color of the wood, especially recommeded when harmonizing of the wood is neccesary, such as finger joint wood. May be used on hard or soft woods. Good vertical hang.				
APPLICATION SYSTEM:	Brush, Spray, or Lambs wool pad, then wipe				
FILM THICKNESS:	300-400 Sq feet per gallon @1.6-2.3 mils wet				
COATS:	One				
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity as supplied Brookfield Solids, % by weight: Thinner: % of dilution:	1.010+/03 1300+/-500 cps, spindle 2, speed 5 10+/-2 Water 0-5%			
DRYING TIME: (at 20°C/68°F)	At 20°C with ventilation, dry to handle: Dust Free: Dry to touch: Full dried: (Drying times may vary according to temperature	20 minutes 2 hours 4 hours , ventialtion and relative humidity)			
WARNINGS:	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)				
DATE OF ISSUANCE:	2-18				

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PRODUCT CODE:	HOG5AA1A					
DESCRIPTION:	WB CLEAR 2K HI GLOSS TOPCOAT					
USES:	High Gloss topcoat for furniture, cabinets, panels					
FEATURES:	Fast drying and good clarity					
PRODUCT PREPARATION:	HOG5AA1AWB CLEAR 2K HI GLOSS TOPCOAT100128 ozTXW11AQUATECH HARDENER FOR WB PU89.5 ozWaterTHINNERas needed up to 5%8 oz					
APPLICATION SYSTEM:	Airmix or Airless Spray					
FILM THICKNESS:	5.7 - 6.9 mils wet					
COATS:	Тwo					
GENERAL PROPERTIES:	Specific Gravity, gr/cc1.023 +/- 0.030Viscosity*26 +/- 2 secSolids by Weight, % as supplied26.1 +/- 2Solids by Weight with hardener30.1Pot Life2 hours*Ford Cup #6					
DRYING TIME: (at 20°C/68°F)	Dust Free Dry to touch Hard Dry Stackable after room drying Buffable after Recommended time between 2 coats wet-on-wet without sa If additional coat required light sanding after	30-40 min 2 hours 4 hours 36 hours 72 hours 1-2 hours 4-6 hours	5			
RECOMMENDATIONS:	We recommend using this product at temperatures above 15°C (60°F) and <70% humidity. Do not exceed 180 gr/cc per coat. Do not exceed 5% dilution. Wash all equipment thoroughly before and after use.					
SHELF LIFE:	12 Months					
STORAGE:	Store in a tightly closed container at room temperatures (18 and foreign material. Do not store at temperatures below 7		protect from moisture			
DATE OF ISSUANCE:	10-2020					

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PRODUCT CODE: IWS1303

DESCRIPTION:	Waterbase Spray Stai	n Binder				
USES:						
0323:	Use for doors, furniture and r	Use for doors, furniture and manufactured goods. Fast drying.				
APPLICATION SYSTEM:	Spray					
PRODUCT PREPARATION:	S <u>pray application</u> IWS1303 PF5, PC3, PZ5	Binder Colors	90+ parts 0-10 parts			
FILM THICKNESS:	1.2-1.6 mils wet					
COATS:	One					
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity*		1.00 +/- 0.01 12 sec +/-1			
	* CF4 at 20°C/68°F					
DRYING TIME: (at 20°C/68°F)	Handling:		30-40 minutes			
TYPICAL SYSTEMS:	Substrate: Stain vehicle: Drying: TTx series P/U WB Basecoa TW34 series P/U WB Topcoa					
NOTES:	We advise removal of excess stain so adhesion of the next coat will not be effected. The vehicle provides excellent workability to stain color bases.					
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)					
DATE OF ISSUANCE:	03-17					

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PRODUCT CODE:	PC 3/Series					
DESCRIPTION:	Water Based	Water Based Dye Stain for Spray or Dip				
USES:	Staining of furnit	ire, frames, panels.				
PRODUCT PREPARATION:	<u>Spray applicatior</u> PC 3/ series Water PD4/90	r Stain 7-10 parts by w 80-90 parts by w			arts by weight	
	Dipping applica PC 3/ series Water PF95	/ series Stain 7-10 parts by weight 40-50 parts by weight				
	<u>Spray and Wipe</u> PC 3/ series Water PD4/90	<u>application</u> Stain Vehicle		60-80 p	rts by weight arts by weight arts by weight	
GENERAL PROPERTIES:	Dry content and Specific Gravity, gr/ccsee belowViscosity DIN 53211 NR4 at 20°C/68°F10+/-2 secDry time at 20°C/68°F4-24 h					
AVAILABLE COLORS:	PC30WhitePC31YellowPC34OrangePC37RedPC36BrownPC38BluePC39Black	e 1.030 1.020	Solid con (by weig 27% 7% 6.5% 7% 13% 5% 10%		<u>Viscosity</u> 70 +/-5 (ISO3) 24 +/-2 (ISO3) 10 +/-2 (DIN 4) 26 +/-2 (ISO 3) 26 +/-2 (ISO 3) 20 +/-2 (DIN 4) 25 +/-2 (ISO 3)	
TYPICAL SYSTEMS:	SYSTEM NR 1 Barrier Coat: PC3/Series Stain Sealer: TT06 Aquatech Sealer or TA48 Solvent Polyurethane Sealer Finish: TW3/xxSeries - Waterbase PU Topcoat or TO9/series Solvent PU Topcoat					
REMARKS:	Increasing the vehicle percentage will improve uniformity, less penetration so consequently greater covering power, and the grain is more enhanced. A wide variety of colors can be achieved by mixing the base colors.					
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)					
DATE OF ISSUANCE:	09-10, Revised 10-10, 2-18					

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PRODUCT CODE:	PD4/90				
DESCRIPTION:	WB GLAZE &	STAIN VEHICLE			
USES:	0	by spray and wipe. Suitable for chestnut, oak, etc. woods. Excellent smoothing action. rious types of furniture.			
APPLICATION SYSTEM:	By spray and wipe				
GENERAL PROPERTIES:	Specific gravity: 1.05 +/-0.02 gr/m; Solid content: 25% +/- 1% by weight Viscosity (at 20°C): 55 +/-5 (DIN 53211 CUP 0 mm.4)				
DRYING TIME: (at 20°C/68°F)	Air (minmum 4 hou	ırs)			
SUGGESTED COATING CYCLES:	Substrate: Stain: Drying: Base coat: Topcoat:	Different kinds of wood PD4/90 + PC3/series + water = 100/10/50 4 hr TT PUR WB base coats TW PUR WB topcoats			
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)				
DATE OF ISSUANCE:	09-10				

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PRODUCT CODE: PD 6xx/Series

DESCRIPTION: Pigmented Water Stains

USES: Staining of furniture, frames, panels. Can be used by spray, dip and roller. Excellent balance between uniformity and transparency making it possible to obtain different colors, hiding power and nuances. Excellent resistance to daylight.

CHEMICAL/PHYSICAL PROPERTIES:	<u>Specific gravity(at 20</u> (+/05)	<u>)°c)</u> <u>Solid content</u> (by weight +/		Viscosity (ISO 3 at 20°C)	
AVAILABLE COLORS:	PD601WhitePD602Yellow vividPD603Yellow OxidPD604Yellow SolidPD605RedPD606OrangePD607GreenPD608BluePD609BlackPD611White (dipp	de 1.19 id 1.08 1.08 1.60 1.15 1.12 1.12	24% 24% 31% 29% 23% 52% 23% 22% 20%	70 +/-5 30 +/-3 30 +/-2 28 +/-3 28 +/-3 31 +/-3 27 +/-3 31 +/-3 27 +/-3 27 +/-3	
APPLICATION SYSTEM:	Spray, roller, or dip				
FILM THICKNESS:	Max total: spray & wipe: 0.8-1.6 mils wet; spray manual: 0.4-0.8 mils wet				
DRYING TIME:	Drying schedule at room temperature: 4 - 24 hr Drying time hot air tunnel (25 - 60°C): 1 hr. Drying time IR/percussion: 3 min				
		Ask manla vina			
SCHEDULES:	Substrate:Ash, maple, pineStain:PD6xx/seriesBasecoat:TTxxWater Base SealerTopcoat:TW34xx Water Base Finishes				
PRODUCT PREPARATION:		<u>ı</u> Stain	1-5 parts t	ov weight	
	Water PF95 \	Vehicle	40-50 parts	s by weight s by weight	
	Spray and Wipe applicationPD 6/ seriesStain1-5 parts by weightWater70-80 parts by weightPD4/90Vehicle20-25 parts by weight				
REMARKS:	It is best to use waterbase sealer to limit the possibility of color bleed. For dipping application of white us special product code PD611. It is formulated ready to use by dipping.				

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)

DATE OF ISSUANCE: 09-10, Revised 10-10

SHELF LIFE:

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PRODUCT SERIES:	ILVATINT					
PRODUCT CODE:	PF 5/Series					
DESRIPTION:	Universal Stains					
USES:	Staining of furniture, frames, panels. Can be used Product should not be used without dilution.	by spray and roller, and diluted with solvent or water.				
PRODUCT PREPARATION:	Spray application (water system) Water 50-100 parts by weight PF95 Vehicle Add 10% - 40% to above mixture PF 5/ series Stain 10 parts by weight With the system of the sys					
	limit blotching effect.					
FILM THICKNESS:	2-2.4 wet mils					
COATS:	One					
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity*	0.97 +/- 0.05 10 +/- 2 sec				
	*ASTM D1200 (Ford) #4 at 20°C/68°F					
DRYING TIME: (at 20°C/68°F)	Handling and topcoating, solvent systems Handling and topcoating, water systems	30 - 60 sec 8 hours minimum				
(tunnel 60°C or IR oven):	Handling and topcoating, solvent systems Handling and topcoating, water systems	10 sec 20 minutes minimum				
AVAILABLE COLORS:	PF50*WhitePF51YellowPF55RedPF57VioletPF59BlackPF 5VGreenPF5T05Medium walnutPF5T07Dark walPF5T01HoneyPF5T02CherryPF5K18*WengePF5WB18Water F*PF50 & PF5K18 can be used only in solvent, r	PF5T08 Rosewood Reducible Wenge				
SHELF LIFE:	12 Months					
STORAGE:	Store in a tightly closed container at room temperation and foreign material. Do not store at temperature	atures (18 -25 °C/64 -75 °F) and protect from moisture s below 7°C (45°F)				
DATE OF ISSUANCE:	03 - 97 Latest Revision 5-13, 9-16, 2-18					

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PRODUCT CODE:	PF95	PF95			
DESCRIPTION:	Vehicle for Waterbase	Stain			
USES:	Use as a vehicle for water base stain on cabinets, furniture, and chairs. Fast drying.				
APPLICATION SYSTEM:	Dip and spray				
PRODUCT PREPARATION:	Water PF95 PF5 <u>Dip Application</u> Water PF95 PC3 series* *PF5 and PZ5 colors can be If using the PF95 vehicle you m	nust add it to the wate	er first and then stir in the PF5 stains. Addition of TZ88		
	or PX0/03 will slow down the dry time for better wetting and wiping. Increasing the vehicle percentage, in both cases, can cause both positive and negative effects: - more uniform penetration - less sagging -greater coverage -the grain is more enhanced A wide variety of colors can be achieved by mixing the base colors in any of the three systems: PC3, or PF5, PZ5 series colorants (see note above for the PF5 and PZ5 colorants in dip applications)				
FILM THICKNESS:	2-2.4 wet mils				
COATS:	One				
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity*		1.02 +/- 0.03 12 sec +/-1		
	* DIN53211 #4 at 20°C/68°F				
DRYING TIME: (at 20°C/68°F)	Handling:		2 - 4 hours		
TYPICAL SYSTEMS:	Substrate:Various woodsStain vehicle:PF95Drying:2 - 4 hoursTTx series P/U WB Basecoats or TA series P/U Solvent BasecoatsTW34 series P/U WB Topcoats or TO9 series P/U Solvent Topcoats				
NOTES:	We advise removal of excess stain so adhesion of the next coat will not be effected. The vehicle provides excellent workability to stain color bases.				
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)				
DATE OF ISSUANCE:	03-17, 2-18				

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PRODUCT CODE: PT410

DESCRIPTION: WHITE AQUATECH SEALER

USES:	Horizontal and vertical surfaces, such as furniture, kitchen cabinets, interior doors. Excellent hiding power, sandability, and leveling.				
PRODUCT PREPARATION:	PT 410White Aquatech Sealer100 partsWaterThinner0-10 %This product may be used without the addition of any crosslinker or hardener. The addition of TXW02Crosslinker at 1% will slightly improve resistance properties. Best chemical resistance is achieved byadding TXW08/TXW13 or HXS5A16 Hardener at 0%-10%. The more Hardener you add, the shorter thepot life, but the better the chemical resistance.				
APPLICATION SYSTEM:	Spray - see pg. 27 for additional information				
FILM THICKNESS:	4-6 mils wet per coat				
COATS:	Two Or Three coats maximum				
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity - Ford Cup #8 Solids by Weight, % as supplied Pot Life with Hardener	1.36 +/- 0.02 71 +/- 5 sec 57 +/- 2 1 to 3 hours with HXS5A16 or TXW08			
DRYING TIME: (at 20°C/68°F)	Dust Free Flash-off at 40°C (104°F) Dry To Touch Dry To Cure Please note that drying times may change with varying temp particular, good ventilation promotes hard dry and best dry t				
TYPICAL SYSTEMS:	Substrate <u>Water-Based 2K Topcoat</u> PT410 Basecoat 2 or 3 coats maximum PW710 White 2K Poly Water 1 or 2 coats maximum Sand using 280-320 grit stearate paper or superfine sponge be recoated within one hour of drying without sanding. Avoid sanding equipment to avoid overheating of the waterbased	id high pressure or reduce speed on powered			
RECOMMENDATIONS:	We recommend using this product at temperatures above 15°C (60°F) and <70% humidity. Do not use steel wool for sanding the raw wood since residual metal dust can cause rust spots. Wood can vary in color and absorption qualities, thereby producing different results in color of stain and finish coat. For touch-up and re-coating, it is advisable to use the same type of coatings as used on the first application. Drying times on all water-based coatings are increased by wood that has poor absorption characteristics and by cold, wet weather. It is always advisable to effect short tests with these products to verify that the results obtained meet your particular requirements.				
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)				
DATE OF ISSUANCE:	09-10, Revised 9-11, 5-12, 11-12, 3-15, 9-16, 4-17, 2-18, 11	-21			

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ILVA TECHNICAL DATA SHEET **PRODUCT CODE:** PW710/Series WBWHITE 2K POLY TOPOAT **DESCRIPTION:** Kitchen Cabinets (must use PU Hardener), Panels, Furniture. If used as a base for making USES: pastel colors use PZ5xx series colorants and do not exceed 30% of pigmented paste. **PRODUCTION PREPARATION:** PW710/Series W/B White 2K Polyurethane 100 parts by weight **TXW08/TXW13** Waterbase Hardener for PU 0-10 parts by weight Water Thinner 5-10 parts by wt (if necessary for application) This product may be used without the addition of any crosslinker or hardener. The addition of TXW02 Crosslinker at 1% will slightly improve resistance properties. Best chemical resistance is achieved by adding TXW08/TXW13 or HXS5A16 Hardener at 0%-10%. The more Hardener you add, the shorter the pot life, but the better the chemical resistance. **APPLICATION SYSTEM:** Spray - see pg 27 for additional information FILM THICKNESS: 4-6 wet mils per coat COATS: One or Two Maximum **GENERAL PROPERTIES:** Specific Gravity, gr/cc 1.20 +/-0.02 Viscosity using Ford Cup #6 40 +/- 5 sec Solids by Weight, % as supplied (I component) 44 +/- 2 70% Solids by Weight, % as supplied (II component) Pot Life using PU Hardener 1-3 hours DRYING TIME: Dust Free Flash-off at 40°C (104°F) 20-40 minutes (at 20°C/68°F) Dry To Touch 1-3 hours Dry To Cure 8-12 hours Please note that drying times may change with varying temperatures, ventilation and relative humidity. In particular, good ventilation promotes hard dry and and best dry times for handling and stacking. **GLOSS AVAILABLE:** PW710/05 5 Sheen PW710/10 10 sheen PW710/20 20 sheen PW710/30 30 sheen PW710/60 60 sheen **TYPICAL SYSTEMS:** Substrate: Various woods PT410 White Aquatech Sealer Sand using 280-320 grit stearate paper or superfine sponges or maroon Scotchbrite between coats. May be recoated within one hour of drying without sanding. Avoid high pressure or reduce speed on powered sanding equipment to avoid overheating of the waterbased product and loading up sandpaper. **RECOMMENDATIONS:** We recommend using stainless steel for all water-based products. If using both solvent and water-based products we suggest the following: ---from water to solvent: wash with water, then wash with solvent from solvent to water, reverse the cyle. Keep cans closed when not in use and wash all equipment well. Keep from freezing. Preperation note: to have a good mix between 1st and 2nd component you must follow this procedure: weigh and prepare separately the quantity of 2nd componenet necessary to mix; pour out slowly 2nd component into 1st component as 1st component is be continually mixed; add water only when 2nd component is completely mixed. 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) 09-10, Revised 2-12, 3-12, 5-12, 11-12, 8-14, 3-15, 9-16, 4-17, 1-20, 11-21

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DATE OF ISSUANCE:

PRODUCT CODE: PZ5.../COLOR SERIES

DESCRIPTION: WATER BASE PIGMENTED TINT PASTE

USES:

Tinting colors for Water-Based Products. In general they may be used in all waterbase systems at a level of 15% maximum with no effect on film properties, only gloss levels at the maximum level of tint paste. If you mix with TW34x series more than 15% to make a deep tone color, you will raise the gloss level.

AVAILABLE COLORS: These colorants may also be used with the Klima Outdoor products. If you mix with the TN931/00 Clear or TN931 Wood Tone to make a solid color, the maximum you can add is up to 10%.

	PZ520 PZ521 PZ521 PZ522 PZ523 PZ561 PZ564 PZ537 PZ534 PZ525 PZ535 PZ526 PZ526 PZ527 PZ527 PZ527 PZ527 PZ528 PZ528 PZ529 PZ529 PZ539		White Vivid Yellow Lemon Yellow Gold Yellow Yellow Oxide Yellow Orange Green Vivid Red Wisteria Red Red Red Oxide Concentrate Red Bordeaux Violet Blue Deep Black Black		
CHEMICAL/PHYSICAL					
PROPERTIES:	CODE PZ520 PZ521 PZ521 PZ522 PZ523 PZ561 PZ564 PZ537 PZ534 PZ525 PZ525 PZ526 PZ534/C PZ527 PZ527 PZ527 PZ527 PZ527 PZ528 PZ529 PZ539	Density (Kg/l 2.100 +/- 0.030 1.126 +/- 0.030 1.857 +/- 0.030 1.611 +/- 0.030 1.611 +/- 0.030 1.134 +/- 0.030 1.165 +/- 0.030 1.119 +/- 0.030 1.085 +/- 0.030 1.673 +/- 0.030 1.174 +/- 0.030 1.100 +/- 0.030 1.071 +/- 0.030 1.133 +/- 0.030 1.100 +/- 0.030	Density 17.5 +/- 9.4 +/- 15.5 +/- 9.9 +/- 13.4 +/- 9.5 +/- 9.7 +/- 10.2 +/- 9.3 +/- 9.3 +/- 9.3 +/- 9.3 +/- 9.8 +/- 9.8 +/- 9.8 +/- 9.5 +/- 9.2 +/-	0.3 0.3	Solid content % 77.7 +/- 2 47.6 +/- 2 68.6 +/- 2 49.3 +/- 2 54.6 +/- 2 43.2 +/- 2 43.2 +/- 2 46.4 +/- 2 39.2 +/- 2 35.0 +/- 2 55.0 +/- 2 54.0 +/- 2 54.0 +/- 2 38.3 +/- 2 32.3 +/- 2 44.5 +/- 2 39.0 +/- 2
USAGE INDICATIONS:		ke every single paste be be weighed with high pr		ble to add pastes u	nder mechanical mixing.
SHELF LIFE:	12 Months				
STORAGE:		closed container at roo d foreign material. Do		,	•
DATE OF ISSUANCE:	4-12, Revised 6-7	12, 11-12, 4-13, 9-14, 1	-15, 9-15, 6-16, 10- ⁻	16	

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PRODUCT CODE: TT276

DESCRIPTION: WB CLEAR SANDING SEALER

USES:	General Purpose Wood Sealer for horizontal and vertical surfaces. Fast dry & good sanding.			
PRODUCT PREPARATION:	TT276W/B Clear Sanding Sealer100 parts by weightWaterThinner5-10 parts by weight (if necessary for application)This product may be used without the addition of any crosslinker or hardener. The addition of TXW02Crosslinker at 1% will slightly improve resistance properties. Best chemical resistance is achieved byadding TXW08/TXW13 or HXS5A16 Hardener at 1%-10%. The more Hardener you add, the shorter thepot life, but better the chemical resistance.			
APPLICATION SYSTEM:	Spray - see pg 27 for additional information			
FILM THICKNESS:	4-6 mils wet per coat			
COATS:	One or two			
GENERAL PROPERTIES:	Specific Gravity, gr/cc, part A Specific Gravity, gr/cc, part B Viscosity* Part A - Ford Cup #6 Solids by Weight, %, as supplied (Part A) Solids by Weight, % as supplied (Part B) Pot Life using PU Hardener	1.030 +/- 0.01 1.075 +/- 0.01 40 +/- 2 sec 33 +/- 2 70 +/- 2 1 - 3 hours		
DRYING TIME: (at 20°C/68°F)	Dust Free Flash-off Dry To Cure Dry To Cure by warm air tunnel (25-40C) Please note that drying times may change with varying tem In particular, good ventilation promotes hard dry and and b			
TYPICAL SYSTEMS:	Substrate: Various woods PD6 W/B Stain TT276 W/B Clear Sanding Sealer TW34/series W/B Clear 2K P/U Topcoat Sand using 280-320 grit stearate paper or superfine spong May be recoated within one hour of drying without sanding powered sanding equipment to avoid overheating of the was sandpaper.	. Avoid high pressure or reduce speed on		
RECOMMENDATIONS:	We recommend using stainless steel for all water-based products. If using both solvent and water-based products we suggest the following: from water to solvent: wash with water, then wash with solvent from solvent to water, reverse the cyle. If you find it necessary to dilute the material we suggest using de-ionized water in order to avoid problems which may arise from a high concentration of salts. Keep cans closed when not in use and wash all equipment well. Keep from freezing. Do not thin more than 10%.			
SHELF LIFE:	12 Months			
STORAGE:	Store in a tightly closed container at room temperatures (1) and foreign material. Do not store at temperatures below 7			
DATE OF ISSUANCE:	09-10, Revised 9-11, 5-12, 11-12, 3-15, 9-16, 4-17, 11-21			

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PRODUCT CODE: TW18

DESCRIPTION:	WB CLEAR NATURAL EFFECT SELF SEAL				
USES:	Flat panels and kitchen doors. Fast drying, very good pore design, transparency and soft natural feel. To be used as a self-sealer with or without hardener. Hardener increases the chemical resistance properties.				
PRODUCT PREPARATION:	TW18 TXW08/TXW13 Water	W/B Clear Natural Effect Self-Sealer Hardener Thinner	100 parts by weight 5 parts by weight as needed (if necessary for application)		
APPLICATION SYSTEM:	Spray - see pg 27 f	for additional information			
FILM THICKNESS:	2.5 - 4 wet mils				
COATS:	One or two				
GENERAL PROPERTIES:		%, as supplied (Part A) % as supplied (Part B)	1.011 +/- 0.02 70 - 75 sec 17 +/- 2 80 +/- 2 5 - 6 hours		
DRYING TIME: (at 20°C/68°F)	Drying schedule at room temperature1 - 3 hoursDry To Cure by warm air tunnel (25-40C)90 minutesSandableafter 4 hoursPlease note that drying times may change with varying temperatures, ventilation and relative humidity.In particular, good ventilation promotes hard dry and and best dry times for handling and stacking.				
TYPICAL SYSTEMS:	Substrate: Stain: Sealer Topcoat:	Walnut/oak/multi-laminar woods PF5 Series TW18 (3-4 wet mils) TW18 - topcoat 5 sheen (3-4 wet mils) TXW08/TXW13 - 5%			
RECOMMENDATIONS:	May be recoated w	ithin one hour of drying without sanding.	es or maroon Scotchbrite between coats. Avoid high pressure or reduce speed on terbased product and loading up sandpaper.		
	We recommend using stainless steel for all water-based products. If using both solvent and water-based products we suggest the following: from water to solvent: wash with water, then wash with solvent from solvent to water, reverse the cyle. If you find it necessary to dilute the material we suggest using de-ionized water in order to avoid problems which may arise from a high concentration of salts. Keep cans closed when not in use and wash all equipment well. Keep from freezing. Do not thin more than 10%.				
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)			
DATE OF ISSUANCE:	09-10, Revised 9-11, 5-12, 11-12, 4-17, 6-17, 11-21				

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PRODUCT CODE: TW34 Series

DESCRIPTION: WB CLEAR 2K POLY TOPCOAT

USES:	Kitchen Cabinets (must use PU Hardener). Manufactured in	door products, including panels and furniture.		
PRODUCT PREPARATION:	TW 34series TXW08/TXW13WB Clear 2K Poly Topcoat Waterbase Hardener for PU Thinner100 parts by weight 0-10 parts by weight 0-10 parts by weight 0-10 parts by weight 0-10 parts by weight (if necessary for application) This product may be used without the addition of any crosslinker or hardener. The addition of TXW02 Crosslinker at 1% will slightly improve resistance properties. Best chemical resistance is achieved by adding TXW08/TXW13 or HXS5A16 Hardener at 0%-10%. The more Hardener you add, the shorter the pot life, longer the dry time, but improved chemical resistance.			
APPLICATION SYSTEM:	Spray - see pg 27 for additiional information			
FILM THICKNESS:	4-6 wet mils per coat			
COATS:	One			
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity - Ford Cup #6 TW340-TW341-342-343-344-346-347 Solids by Weight, % as supplied (I component) Solids by Weight, % as supplied (II complonent) Pot Life using PU Hardener	1.03 +/- 0.02 40 +/- 2 sec 33 +/- 2 70% 2 - 3 hours		
DRYING TIME: (at 20°C/68°F)	Dust Free Dry To Touch Dry to Handle (with forced air dry can be reduced to 2 hrs) Dry To Cure to achieve ultimate resistance properties Please note that drying times may change with varying temp type and quantity of hardener. In particular, good ventilation for handling and stacking.			
GLOSS AVAILABLE:	TW34080-85 sheenTW34164-66 sheenTW34419-21 shTW34248-52 sheenTW3469-12 sheTW34328-32 sheenTW3474-6 shee	en		
RECOMMENDATIONS:	Sand with 280- 320 paper or superfine sponges or maroon Scotchbrite between coats. May be recoated within one hour of drying without sanding. Avoid high pressure or reduce speed on powered sanding equipment to avoid overheating of the water based product and loading up sandpaper. To guarantee an adequate incorporation of the second component please use the following procedure: weigh out the appropriate amount of the second component; add the second component to the TW34 series slowly, while using the automatic agitator; add water only when the second component has been incorpor rated completely. Drying times can vary with differing temperatures, ventilation and relative humidity. We recommend using stainless steel for all water-based products. 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)			
DATE OF ISSUANCE:	9-10, Revised 9-11, 5-12, 11-12, 9-16,1-17, 4-17, 11-21			

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PRODUCT CODE: TW88X

DESCRIPTION:	WB SELF SEALER 2K FLOOR FIN	ISH	
USES:	For parquet and stairs (open and closed pore	s)	
PRODUCT PREPARATION:	TW 88XWB Self Sealer 2KTXW08/TXW13Waterbase HardenerWaterThinner*Pot life with TXW08/TXW13: from 1-3 hoursFor improved hardness and wear resistance	depending on d	y weight by weight (if necessary for application) ilution percentage and room temperature.
APPLICATION SYSTEM:	Brush or roller		
FILM THICKNESS:	3-5 wet mils per coat, maximum 12 wet mils	otal	
COATS:	Three		
GENERAL PROPERTIES:	Specific Gravity, gr/cc Viscosity (Ford Cup #4) Solids by Weight, %, as supplied (I compone Thinner Dilution	1.000 +/- (13 +/- 2 se nt) 28 +/- 2 Water 0-10%, if r	ec
DRYING TIME:	Drying schedule at room temperature: Dust Free Dry to touch Hard Dry Drying time in tunnel 25-60°C Walk on Time between coats without sanding Please note that drying times may change w	2-4 hours) minutes in 24 hours
GLOSS AVAILABLE:	TW882 50 sheen +/- 3 TW884 20 sheen +/- 2		
TYPICAL SYSTEMS:	(a) Substrate: Various woods (sand with 150 Base Coat: TW88x with 10% TXW Dry for 12 hours - sand with 280-3 Base Coat: TW88x with 10% TXW Dry for 12 hours - sand with 280-3 Topcoat: TW88x with 10% TXW08	08/TX/W13 20 08/TX/W13 20 /TX/W13	ostrate: Various woods (sand w/150) Primer Dry for 6 hours - sand with 280-320 Basecoat: TW88x with10% TXW08/TXW13 Dry for 8 hours sand with 280-320 Basecoat: TW88x with 10% TXW08/TXW13 Dry 12 hours - sand with 280-320 Topocoat: TW88x with 10% TXW08/TXW13
RECOMMENDATIONS:	To guarantee an adequate incorporation of the second component please use the following procedure: weigh out the appropriate amount of the second component; add the second component to the TW88 series slowly, while using the automatic agitator; add water only when the second component has been incorporated completely. Drying times can vary with differing temperatures, ventilation and relative humidity. We recommend using stainless steel for all water-based products. Keep cans closed when not in use and wash all equipment well. Keep from freezing.		
SHELF LIFE:	12 Months		
STORAGE:	Store in a tightly closed container at room ter and foreign material. Do not store at temper		
DATE OF ISSUANCE:	09-10, Revised 1-11, 9-16, 4-17, 2-18, 11-21		

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PRODUCT CODE: WB1343

DESCRIPTION:	WB GLAZE & WIPE STAIN LOW SOLIDS BASE			
USES:	Vehicle for staining & glazing by spray and wipe. Suitable for all types of wood. Very little grain raising when used as a stain. It may be used as a glaze in both waterbase and solvent based polyurethane cycles.			
APPLICATION SYSTEM:	Spray and wipe			
FILM THICKNESS:	1.6 - 2.4 wet mils			
GENERAL PROPERTIES:	Specific Gravity, gr. Viscosity (DIN 532 Solids by Weight, %	11 Cup 0 - 4mm)	1.10 +/- 0.02 30 +/- 2 sec 27 +/- 1%	
DRYING TIME: (at 20°C/68°F)	Air Dry Please note that dr humidity.	Please note that drying times may change with varying temperatures, ventilation and relative		
SUGGESTED COATING CYCLES:	Substrate: Stain: Drying: Base Coat: Topcoat:		ats or TA Series P/U Solvent Basecoats ats or TO9 Series P/U Solvent Topcoats	
TYPICAL STAIN COLOR FORMULATION:		80 parts 10 parts 10 parts PC3 colors to obtain bright an at maximum 10% level.	d very clear stains. PZ5xx Series Aquatech pastes	
TYPICAL GLAZE COLOR FORMULATION:	WB1343 PZ5xx colors* Water *You may also use	80 parts 10 parts 10 parts PD6xx stain colorants		
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)			
DATE OF ISSUANCE:	03-17			

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PRODUCT CODE: WBS5A15

DESCRIPTION:		OR WB S	STAIN BLOCK	SEALE	R
USES:	Recommended for use as a tannin stain blocker. Seals tannins, knots and wood sap areas. May be used on new contruction or remodeling work.				
PRODUCT PREPARATION:		White Inter Thinner	rior WB Stain Blocł	< Sealer	100 parts 0-5%
APPLICATION SYSTEM:	Airmix Spray or Hand	d Spray			
FILM THICKNESS:	2.4 - 3.6 wet mils				
COATS:	Two coats maximum				
GENERAL PROPERTIES:	Specific Gravity, gr/c Viscosity (Ford Cup a Solids by Weight, %,	#6)	ed	1.15+/- 0 65 +/- 5 s 50 +/- 2	
DRYING TIME:		ng times n	nay change with va		
TYPICAL SYSTEMS:	Substrate WBS5A15 PT410 PW710 series/TXW0 Substrate WBS5A15 PT410 PW710 series/TXW0		Pine, Poplar, MDP White Stain Block White Sealer	≓, Oak	1 coat - no sanding 1 coat - apply same day as stain block 1 coat 1 coat, dry overnight or longer, sand 1 coat 1 coat
RECOMMENDATIONS:	We recommends using this product at temperatures above 15°C (60°F) and <70% humidity. Do not use steel wool for sanding the raw wood since residual metal dust can cause rust spots. Wood can vary in color and absorption qualities, thereby producing different results in color of stain and finish coat. For touch-up and re-coating, it is advisable to use the same type of coatings as used on the first application. Drying times on all water-based coatings are increased by wood that has poor absorption characteristics and by cold, wet weather. It is always advisable to effect short tests with these products to verify that the results obtained meet your particular requirements.				
SHELF LIFE:	12 Months				
STORAGE:	Store in a tightly clos and foreign material.			``	-25°C/64 -75°F) and protect from moisture °C (45°F)
DATE OF ISSUANCE:	07-14, 9-16, 4-17, 3-	18, 11-21			

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PRODUCT CODE:	WBS5AA2			
DESCRIPTION:	BLACK AQUATECH SEALER			
USES:	Furniture, doors ar	nd profiles for solid wood and MDF. Very	r fast dry with excellent sanding properties.	
PRODUCT PREPARATION:	WBS5AA2 Water	Black Aquatech Sealer Thinner	100 parts 0-5 %	
APPLICATION SYSTEM:	Airmix Spray or Ha	and Spray		
FILM THICKNESS:	4.8 - 6.4 wet mils			
COATS:	Two coats maximu	im		
GENERAL PROPERTIES:	Specific Gravity, gr Viscosity* Solids by Weight, ^G *Ford 6 cup@20°C	% as supplied	1.38 +/- 0.03 45 +/-4 sec 59 +/- 2	
DRYING TIME: (at 20°C/68°F)		ot air tunnel	3-5 hours 60-90 minutes 30-50 minutes 60-75 minutes 4-5 hours Minimum 2-3 hours 2-4 hours pperatures, ventilation and relative humidity. est dry times for handling and stacking.	
RECOMMENDATIONS:	Do not use steel w can vary in color a coat. For touch-up application. Drying characteristics and	nd absorption qualities, thereby producin and re-coating, it is advisable to use th g times on all water-based coatings are i	dual metal dust can cause rust spots. Wood ng different results in color of stain and finish e same type of coatings as used on the first ncreased by wood that has poor absorption sable to effect short tests with these products to	
SHELF LIFE:	12 Months			
STORAGE:		osed container at room temperatures (1 al. Do not store at temperatures below	8 -25°C/64 -75°F) and protect from moisture 7°C (45°F)	
DATE OF ISSUANCE:	3-20			

PRODUCT CODE: WBS5AA2

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PRODUCT CODE.	VVD3503			
DESCRIPTION:	WHITE AQUATECH SEALER			
USES:	Furniture, doors an	d profiles for solid wood and MDF. Very	fast dry with excellent sanding properties.	
PRODUCT PREPARATION:	WBS503 Water	White Aquatech Sealer Thinner	100 parts 0-5 %	
APPLICATION SYSTEM:	Airmix Spray or Ha	nd Spray		
FILM THICKNESS:	4.8 - 6.4 wet mils			
COATS:	Two coats maximu	m		
GENERAL PROPERTIES:	Specific Gravity, gr Viscosity - CF4@2 Solids by Weight, 9	O°C	1.38 +/- 0.05 85 +/- 8 sec 59 +/- 2	
DRYING TIME: (at 20°C/68°F)		nt air tunnel	3-5 hours 60-90 minutes 30-50 minutes 60-75 minutes 4-5 hours Minimum 2-3 hours 2-4 hours peratures, ventilation and relative humidity. est dry times for handling and stacking.	
RECOMMENDATIONS:	We recommend using this product at temperatures above 15°C (60°F) and <70% humidity. Do not use steel wool for sanding the raw wood since residual metal dust can cause rust spots. Wood can vary in color and absorption qualities, thereby producing different results in color of stain and finish coat. For touch-up and re-coating, it is advisable to use the same type of coatings as used on the first application. Drying times on all water-based coatings are increased by wood that has poor absorption characteristics and by cold, wet weather. It is always advisable to effect short tests with these products to verify that the results obtained meet your particular requirements.			
SHELF LIFE:	12 Months			
STORAGE:		osed container at room temperatures (18 al. Do not store at temperatures below 7	-25°C/64 -75°F) and protect from moisture °C (45°F)	
DATE OF ISSUANCE:	8-15, 4-17, 3-20			

PRODUCT CODE: WBS503

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PRODUCT CODE: WES5A01

DESCRIPTION:	WB GLAZE & WIPE STAIN HIGH SOLIDS BASE			
USES:	Vehicle for staining and glazing by spray and wipe. Suitable for all types of wood. Very little grain raising when used as a stain. It may be used as a glaze in both waterbase and solvent based polyurethane cycles.			
APPLICATION SYSTEM:	Spray and wipe			
FILM THICKNESS:	1.6 - 2.4 wet mils			
GENERAL PROPERTIES:	Specific Gravity, gr Viscosity (DIN 532 Solids by Weight, S	11 Cup 0 - 4mm)	1.12 +/- 0.02 33 +/- 2 sec 33 +/- 1%	
DRYING TIME: (at 20°C/68°F)	Air Dry Please note that di humidity.	Please note that drying times may change with varying temperatures, ventilation and relative		
SUGGESTED COATING CYCLES:	Substrate: Stain: Drying: Base Coat: Topcoat:		ats or TA Series P/U Solvent Basecoats ats or TO9 Series P/U Solvent Topcoats	
TYPICAL STAIN COLOR FORMULATION:		80 parts 10 parts 10 parts PC3 colors to obtain bright ar at maximum 10% level.	nd very clear stains. PZ5xx Series Aquatech pastes	
TYPICAL GLAZE COLOR FORMULATION:	WES5A01 PZ5xx colors* Water *You may also use	80 parts 10 parts 10 parts PD6xx stain colorants		
SHELF LIFE:	12 Months			
STORAGE:		osed container at room tempe al. Do not store at temperature	ratures (18 -25°C/64 -75°F) and protect from moisture es below 7°C (45°F)	
DATE OF ISSUANCE:	08-11, 6-12, 3-17			

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PRODUCT CODE: WES5A07

DESCRIPTION:	DRY WATER GLAZE			
USES:	Antiquing and Decape effect on mobile in style, doors and frames for painting			
PRODUCT PREPARATION:	WES5A07 Dry Glaze May be tinted to color using ILV May be diluted with water if nee	/A PZ5xx	100 parts by weight series water-base pigmented	128 parts by volume pastes.
APPLICATION SYSTEM:	By spray and wipe. Allow to air dry 15-45 minutes. Moving ambient air is best for drying conditions. After drying, remove the antiquing glaze with scotch brite or cloth to desired effect.			
GENERAL PROPERTIES:	Solids content:	1.02 +/-0 8.45% +/ 50+/-3 (is	- 1% by weight	
TYPICAL SYSTEM:	PT410 PW710/10 with 5% TXW08/TX WES5A07 tinted with PZ5xxse TW34/series		1 coat-dry 2-3 hours and same 1 coat-dry 2- 3 hours and the apply by cloth-allow to dry 45 remove with scotch brite or cl final clear coat	n very lightly sand with scotch brite 5 minutes
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)			
DATE OF ISSUANCE:	4-13, 11-21			

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PRODUCT CODE:	WMM5A/SERIES			
DESCRIPTION:	WB WHITE SELF-SEALER			
USES:	Furniture, architectural millwork, sto sanding properties and filling power.	e fixtures. Offers the best in dry times and	leveling, with very good	
PRODUCT PREPARATION:	WMM5A series White Self-Seal Water	er 100 parts by weight 0-5 parts	128 parts by volume 1-6 parts by volume	
APPLICATION SYSTEM:	Spray			
FILM THICKNESS:	4.4 - 5.2 wet mils			
GENERAL PROPERTIES:	Specific gravity: Solid content (% by weight) Viscosity (at 20°C):	1.28+/-5 gr/l 55 +/- 2 by weight 95+/-15 (iso 6)		
DRYING TIME: (at 20°C/68°F)	All dry times are dependent upon ai Drying schedule at room temperatur Drying time with hot air tunnel Dust free/time gel Dry to touch Dry Hard Stackable Sandable	flow, ambient temperatures, and humidity e 2-3 hours 20-30 mins 30-60 mins 2-3 hours 6-8 hours overnight after 2-3 hours before applying 2nd coa	at as topcoat	
GLOSS LEVELS:	WMM5A03D60 sheenWMM5A03250 sheenWMM5A03330 sheenWMM5A03420 sheenWMM5A03610 sheen			
SHELF LIFE:	12 Months			
STORAGE:	Store in a tightly closed container at and foreign material. Do not store a	room temperatures (18 -25°C/64 -75°F) and t temperatures below 7°C (45°F)	d protect from moisture	
DATE OF ISSUANCE:	8-14, Revised 1-15, 9-16			

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HELPFUL HANDLING & MIXING INSTRUCTIONS

VISCOSITY AND REDUCTION

Our waterbase products are generally formulated at a high thixotopy level. This is done to ensure good vertical spray properties. Water can be used as a thinning agent generally at 5-10%. Our recommended thinner or retarder is PX0/03, at a level of 1-5%. We also have a special Waterbase Reducer, code TZ-88, used at 1-5%. It will reduce the viscosity much faster than adding water, but will retard the dry.

ADDING THE PU HARDENER

PU Hardener HXS5A16 and TXW08/TXW13 are used to increase the resistance properties. The end result will be our most resistant waterbase products. Please note that both HXS5A16 and TXW08/TXW13 are not flammable.

HXS5A16 is difficult to add by hand stirring. If you attempt to do this, you must make a pre-mix of the reducer and hardener. First make a mixture of 80% water and 20% TZ08, (our code TZ88). Then mix this reducer 1/1 with the HXS5A16. This premixed reducer and hardener can then be added to the paint. If you are adding HXS5A16 under mechanical agitation, you may add it directly to the paint while stirring. HXS5A16 is a non-yellowing hardener and gives the best chemical resistance properties.

TXW08/TXW13 may be added directly to the paint whether stirring by hand or using mechanical agitation. The higher the level of TXW08/TXW13, the slower the dry time will be. TXW08/TXW13 is a non-yellowing hardener and gives a slightly lower result in chemical resistance properties versus HXS5A16.

Many of our water-based products may be used without the addition of hardener, or by using TXW02 Crosslinker or by adding polyurethane hardeners HXS5A16 or TXW08/TXW13. Please refer to the individual product technical data sheet. The more hardener you add, the better the chemical resistance properties. A general rule of thumb is that higher levels of hardener will slow down the dry time and may effect the gloss level.

ADDING THE CROSSLINKER

TXW02 Crosslinker is used to increase the resistance properties over using waterbase as a one component product. These properties will not be as high as using a Polyurethane Hardener.

TXW02 may be added directly to the paint whether stirring by hand or using mechanical agitation. The recommended level of TXW02 is 1.0%. Adding the crosslinker will improve the chemical resistance properties versus using the material as a one component product. The crosslinker remains effective for approx 8 hours. At the end of this time, the unused product is not lost, but may be rejuvinated by adding an equal volume or more of fresh material to the product that was not used, and then you must re-crosslink at 1% the entire new quantity.

SANDING

It is recommended that you use a finer grit paper for sanding raw wood when finishing with water-based products than solvent based products. When sanding water based finishes 280-320-400 stearated paper is recommended.

SPRAY APPLICATION

You may use air-assisted airless, conventional, pressure pot, or cup gun for spraying. Best results are obtained using air-assisted airless with 600 fluid lbs and 35-40 static atomizing pressure and small tips, such as 06134/06154.

DRYING

Best drying method for water-based products is warm moving fresh air. Fresh air is neecessary to keep the drying room humidity level under control.

RECOMMENDED STORAGE

All water-based products should be stored in tightly closed containers at temperatures above 5°C (41°F)

Date of Issuance: 09-10, Revised 11-12, 9-16, 3-17, 2-18, 11-21

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Since every single panel or any other substrate, even if of the same chemical nature, can be theoretically different than the previous one and possess chemical and physical properties which can greatly influence the end-results of the applied coating, and considering that the mixing, catalysis and diluting operations are not under our strict control, nor are temperatures, air humidity and technical features of the various installations, which can also effect the end results, subject to our personal decision at the time of application, it is impossible for our comapny to assume any responsibility whatsoever in regard to the results obtained with the use of our products.

Futhermore, we underline the fact that in industrial applications, a tolerance of 5% in the overall results is considered normal and is definitely not caused by the quality of the products employed.

The technological information contained in the present technical data sheets are based on the average results obtained with the test effects in our laboratories, and as such represents the most complete information and technological experience available in the wood coating field.

Our company gives the maximum assurance as to the constancy of the chemical and phyiscal properties of our products within the tolerance limits indicated on our technical data sheets. Our company is also always ready to substitue any of our products, whenever the properties do not correspond to the infromation given in our technical bulletins.

Nevertheless, the end results obtained are under the complete responsibility of the end user, who has the obligation to verify if the properties of the specific products in use correspond to his particular requirements, and if the ambient conditions, application, installation and substrates might eventually indicate substantial modifications of the products involved.

All the information in our technical data sheets have been obtained at a temperature of 20°C and at a relative humidity of 70%.

11-03-2021

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