



EM2000wvx WB Alkyd Varnish

EM2100 Gloss, EM2200 Semi-Gloss, EM2300 Satin, EM2400 Flat

Description	<p>Emtech® EM2000wvx Waterborne Alkyd Varnish represents the latest technology in water-based wood coatings for interior and exterior architectural and specialty wood finishing applications. EM2000wvx will create the warm glow of traditional alkyd varnish and will define the beauty of the substrate it is protecting – all with the speed and safety of our ultra-low VOC water-based chemistries.</p> <p>EM2000wvx is well suited for use on high-end furniture and cabinet applications, as well as moisture/UV-exposed surfaces such as window and door trim packages. EM2000wvx is very easy to brush or spray using a wide array of application options.</p>	
Use	<p>For use on furniture, cabinet, interior/exterior architectural and custom woodworking applications.</p>	
Features & Benefits	<p>HAP's FREE USEPA AIM National VOC Compliant OTC / MRPO Regional Compliant SCAQMD Regional Compliant LEED Credit Compliant Multi-Substrate Adhesion Performance 100% Burn-In Technology</p>	<p>Fast Dry-Time Easy to Brush & Spray Excellent Clarity Water Clean Up Non-Flammable Traditional Alkyd Color Tone</p>
Directions for Use	<p>All surfaces to be finished must be clean and free of oil, dust and contamination that may cause fisheyes or poor adhesion. Clean surface with denatured alcohol or fresh water. Allow surface to thoroughly dry before proceeding. Fine sand surface to be finished with the appropriate grade sandpaper based on the type of final finish required. If the surface to be finished has a grain-filling type glaze, sealer or paste; ensure that the systems are compatible with one another by preparing a test panel before proceeding. Certain solvent-based fillers and glazes may prevent proper adhesion of the topcoat if not thoroughly cured. Ensure that grain fillers have been sanded with a minimum of 400-grit sandpaper and all contamination is removed. Oil-based stains or fillers should be airdried and tested to ensure proper early adhesion of the water-based topcoat. Spray-apply each coat of Emtech® EM2000wvx Waterborne Alkyd Varnish with HVLP, conventional or Airless/Air assist spray equipment. Consult with your spray gun manufacturer for proper gun set-ups based on coating viscosity and intended use. Spray gun operators must wear a NIOSHA approved respirator during the spray application of this material. Consult the Material Safety Data Sheet of this material for safety and health procedures.</p>	
Unfinished / New Wood	<ol style="list-style-type: none"> 1. After surfaces has been prepared remove all dust with a lint-free cloth dampened with water/alcohol mixed 1:1 2. Mix EM2000wvx well before using. Strain if necessary. 3. EM2000wvx can be sprayed without reducing with water or Target SA5 Spray Retarder. However, additions of SA5 Retarder may be required to slow-down the system if the varnish is drying too quickly during high temperature applications. 4. Reduce EM2000wvx upwards to 50% with water if varnish is to be used as a pre-stain sealer or tie-coat between stain or dye coats to prevent color bleed. 5. Apply the required number of coats to obtain the desired film-build and final look. A minimum of 2 coats applied at 2-4 mils per wet coat is required to obtain a thin film set. There is no limit to the total number of coats of EM2000wvx that can be applied. Allow each coat to dry for a minimum of 30-45 minutes before recoating. Sanding between each coat is not necessary unless contamination has affected the film formation, or if the last coat has dried for more than 24 hours. Sand with 400-grit sandpaper to remove surface imperfections, runs, sags and contamination. Remove sanding dust as specified and apply final coat as required. 	



Physical Specifications

Coating Density: 8.60 lbs./Gal.	Solids % by Weight: 27.0% - 30.0% average nv (gloss format)
VOC Content Actual: 51 Grams/Liter	VOC Content Regulatory: 117 Grams/Liter
HAPS Content: 0.0	pH: 8.5 - 9.0
Viscosity: 35-40 Sec Zahns #2 Cup	Appearance: Off-white emulsion
Dry Time: 25- 35 minutes @ 3mils wet	Spread Rate: 400 sq ft. per Gallon @ 3mils wet
Flash Point: Above 200 °F	Shelf-Life: 24+ Months
Freeze/Thaw Cycles: 1+	Photochemical Reactivity: 0

Average Equipment Use Settings

Conventional Equipment w/Pressure Pot:	If needed, reduce with deionized water up to 10% maximum. Nozzle size 0.055 inches (1.4 mm) - 0.062 inches (1.6mm) - atomizing air 40 psi (2.8.bar)-50 psi (3.5 bar), Pot pressure 4 psi (0.28 bar) to 8 psi (0.55 bar).
HVLP Equipment w/Pressure Pot:	If needed, reduce with deionized water up to 5% maximum. Nozzle size 0.047 inches (1.2mm) - 0.055 inches (1.4 mm) nozzle, atomizing air 4 psi (0.28 bar) -8 psi (0.55 bar).
Airless Air Assist Equipment:	If needed, reduce with deionized water up to 5% maximum. Nozzle size , tip size.011 - .013 inches, fluid pressure 400 psi (27 bar) - 600 psi(41 bar), atomizing air 10psi (0.69 bar) to 15 psi (1.0 bar).

Clean-Up Procedures

All Target Coatings Emtech® Series finishes cleanup with water and alcohol mixed 1:1. Rinse spray gun fluid handling equipment thoroughly with water after each use. If finish dries to hard film soak gun parts in an acetone solution.

Industrial Hygiene Requirements

Use only in well ventilated areas. Avoid inhaling spray mist. Wear a NIOSH/MSHA approved respirator during spray applications.

Emergency First-Aid

Ingestion:

Administer large amounts of water.
DO NOT INDUCE VOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.

Inhalation:

Remove exposed person(s) to well ventilated area. Treat symptomatically.

Eyes:

Flush with fresh water. Seek medical attention.

Skin:

Wash exposed area with warm, soapy water. Seek medical attention if irritation occurs.

Disclaimer: The information and suggestions are, to the best of our knowledge, reliable. Since the conditions of use are beyond our control, this company cannot assume responsibility for any risk or liabilities that may result from the use of its products.