



HSF5000 WB Primer/Surfacer/Filler

HSF5100 Neutral Base, HSF5200 White Base, HSF5300 Grey Base

Description	Emtech® HSF5000 Primer/Surfacer/Filler is a waterborne high solids primer, surface and filler specifically formulated to be used on birch, poplar, maple, MDF and engineered veneer to help provide a smooth, non-textured appearance to the base substrate. HSF5000 is available in three bases – neutral, primer white and primer grey, for use underneath pigmented topcoats. HSF5000 can be cross-linked with 5% CL100 Crosslinker to provide increased sub-level hardness and adhesion when used on difficult to finish surfaces. It must be noted that HSF5000 Primer/Surface/Filler is NOT a stain-blocking primer. If the wood species being finished is prone tannin stain bleed, i.e. red oak, white oak and ash, a thin coat of stain-blocking primer is required to control stain bleed-through.	
Use	For use on furniture, cabinet, interior architectural and custom woodworking applications.	
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</p>	<p>Spray, Brush and Roller Friendly. Fast Recoat Time. Improves Grain Print/Hiding. Water Clean Up Non-Flammable Available in Neutral, White and Grey</p>
Directions for Use	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 and fresh water mixed 1:1. Thoroughly mix HSF5000 Primer/Surfacer/Filler to ensure all components are completely blended together before use. Ensure that the substrate to be primed has been sanded with 320-grit aluminum oxide sandpaper. If the wood species is prone to tannin or sap bleed it is important to use a 50% reduced alcohol or water-based shellac stain blocking primer prior to applying HSF5000. The stain-blocking primer must be applied at no more than 1mil wet to prevent craze/crackle effect from occurring. Follow the dry-time/recoat directions for the stain-blocking primer to ensure compatibility. 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 Safety Data Sheet of this material for safety and health procedures.	
Unfinished / New Wood	<ol style="list-style-type: none"> 1. After surface has been prepared remove all dust with a cloth dampened with a solution of water and denatured alcohol mix 1:1. 2. Mix Emtech® HSF5000 Primer/Surfacer well before using. 3. HSF5000 can be sprayed without reducing with water or with Emtech® SA5 Spray Retarder. However, additions of SA5 Retarder may be required to slow-down the system if the primer is drying too quickly when applied in a high-temperature/low-humidity environment. 4. Apply a minimum of 2 coats of HSF5000 at 2-3 mils per wet coat. Allow each coat to dry for a minimum of 30-45 minutes before recoating. Sand between each coat with 320 or 400-grit sandpaper to remove surface imperfections, runs, sags and contamination. Remove sanding dust as specified and apply final topcoats as required. 	



Physical Specifications

Coating Density: 9.0 lbs./Gal.	Solids % by Weight: 65.0%nv
VOC Content Actual: 31 Grams/Liter	VOC Content Regulatory: 71 Grams/Liter
HAPS Content: 0.0	pH: 8.5 – 9.0
Viscosity: 60 Sec Zahns #4 Cup	Appearance: Off-white emulsion
Dry Time: 25- 35 minutes @ 3mils wet	Spread Rate: 250 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 Spray Equipment:	If needed, reduce with deionized water up to 10% maximum. Nozzle size: 1.8mm to 2.0mm – Atomizing air: 40 psi–50 psi - Pot pressure 4 psi to 8 psi. Consult with spray gun manufacturer for optimal pressure settings based on coatings viscosity.
HVLP Spray Equipment:	If needed, reduce with deionized water up to 10% maximum. Nozzle size: 1.8mm to 2.0mm - Atomizing air: 30 psi. Consult with spray gun manufacturer for optimal pressure settings based on coatings viscosity.
Airless Air Assist Equipment (10:1 pump ration):	If needed, reduce with deionized water up to 10% maximum. Nozzle tip size .013 - .015 inches Fluid pressure 30 psi –40 psi, Atomizing air 20psi to 30 psi. Consult with spray gun manufacturer for optimal pressure settings based on coatings viscosity.

Clean-Up Procedures

All Target Coatings Emtech® Series finishes cleanup with fresh, warm water. Rinse spray gun fluid-handling equipment thoroughly with water, followed by a solution of water and denatured alcohol after each use. If the finish dries to a hard film, soak gun parts in acetone or denatured alcohol to soften and remove the dried film.

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.