



# emtech™

Water Based Coatings for a Changing World™

HSF5000 SERIES  
WATER BORNE PRIMER/SURFACER/FILLER

Leed Credit ID: EQ4.1, EQ4.2, EQ4.5

## High Solids Primer/Surfacer/Filler

**EMTECH HSF5000** is a waterborne high solids primer, surfacer and filler specifically formulated to be used on open grained wood, MDF and engineered veneer to help provide a smooth, non-textured appearance to the base substrate. HSF5000 is available in a neutral color base for bright finishing, or in pigmented white and grey bases for use underneath pigmented topcoats. The use of HSF5000 reduces the total number of intermediate sealer and topcoat applications required to obtain a final, highbuild finish. HSF5000 can be cross-linked with 5% CL100 CrossLinker to provide increased sub-level hardness and adhesion when used on difficult to finish surfaces.

The fast drying nature of HSF5000 allows topcoats to be applied in as little as 2 hours after the last coat of HSF5000 has been dry sanded.

## Recommended Method of Application

**Neutral Base Version:** Prepare surface by sanding with 220-grit sandpaper. Remove all dust, oil and solvent from the surface. Apply pre-stain sealer and /or wood stain as desired, prior to grain filling, as required by finishing schedule. HSF5000 Neutral Base can be tinted with water-soluble dyes and/or pigments to create a ground color for natural grain color enhancement.

Spray, brush or roll-apply HSF5000 onto prepared substrate. Apply HSF5000 at a 2-3mil wet film thickness per coat. Allow each coat air dry for a minimum of 1 hour at room temperature. Sand each coat as described above with 320-grit sandpaper to remove surface defects. Apply a minimum of 2 coats to obtain a filled grain effect. (Note: Different wood species require more/fewer coats of filler. Make a test panel



MDF primed with HSF5200 White and top coated with EM6500 Bright White Pigmented Lacquer

*Photo courtesy of Target Coatings*



to determine the exact number of coats of HSF5000 needed.) Repeat if necessary to complete fill in negative grain. Allow 2 hours drying time between each filler application to ensure proper drying of underlying filler. Re-apply stain or dye if required to even off color tone.

**Pigmented Base Version:** All surfaces to be finished must be clean, dry and free of excess contamination. Proper surface preparation is the key to a successful final finish:



Remove all dust, oil and solvent from the surface with a lint-free cloth lightly dampened with water and denatured alcohol mixed 50:50. Prepare surface by sanding with 220-grit aluminum oxide sandpaper or with a sandpaper grade that meets the substrate prep requirements. For highly porous grades of MDF, pre-seal surface with EMTECH EM1000 Universal Sanding Sealer to improve the filling properties of HSF5000. Follow EM1000 directions for pre-seal application use.

Spray, brush or roll-apply HSF5000 onto prepared substrate. Apply HSF5000 at a 2-4mil wet film thickness per coat. Allow each coat air dry for a minimum of 1 hour at room temperature. Sand each coat as described above with 320-grit sandpaper to remove surface defects. Apply a minimum of 2 coats of pigmented HSF5000 to obtain complete hiding of substrate when dry.

### Clean Up

Flush all equipment with water after each use. Build-up can be removed with any high alkaline acrylic floor wax stripper. Rinse equipment thoroughly with fresh water after using any type of stripper or gun cleaner.

### Physical Specifications

Coating Density: 9.0 lbs./Gal.
Solids % by Weight: 64%nv (White Base)
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
Dry Time: 45-60 minutes @ 3mils
Spread Rate: 250sq ft. per Gallon @ 3mils
Appearance: Off-White/Heavy Bodied
Flash Point: Above 200°F
Shelf-Life: 24+ Months

### Features and Benefits

High solid formula
Fast priming on MDF
Controls grain print on poplar and birch
Low sandpaper loading
Ultra low VOC
HAPs Free
SCAQMD Regional Compliant
USEPA AIM National VOC Compliant
LEED Credit Compliant
Fast Dry/Recoat time
Water clean up
Non-hazardous/Non-flammable

### Sheen & Part Number Chart

Part Number	Base Color
HSF5100	Neutral Filler Base
HSF5200	Primer White Base
HSF5300	Primer Grey Base



## **Emergency First-Aid Procedures**

### **Ingestion:**

Administer large volumes 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:**

Flush with fresh water.  
Seek medical attention if irritation persists.

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