



EMTECH WR4000 Stain System
WR4000 Water-Reducible Stain
(Part #WR40xxx)

The **EMTECH WR4000 Stain System** is built upon a unique hybridized linseed oil emulsion base and organic colorants that allow this stain to be thinned, and cleaned with water, while still providing the deep, rich color penetration of traditional linseed oil. No turpentine, mineral spirits or ammonia is required for thinning this material. EMTECH WR4000 Stains clean up with basic water and mild detergent.

Unlike conventional water-based stains that are built upon acrylic resins, which are prone to setting up higher on the wood structure, EMTECH WR4000 Stains penetrate deeply into the grain pattern, allowing for a color reaction and definition that is identical to historically correct linseed based stains. These linseed emulsions allow for the stain to remain open longer as well as preventing the lapping and fairing effect commonly found with acrylic based stains. EMTECH WR4000 Stains will generate all of the color richness of solvent-based stains, but with the safety and convenience of a water-based system. EMTECH WR4000 Stains are blended with UV absorbers and reflectors, so that the colors remain vivid and true when exposed to UV light.

The **EMTECH WR4000 Clear Base** (WR400xx) can be used as a “Danish-Oil” type finish, bringing out the natural color tones of domestic and exotic woods without the introduction of dyes or pigments. Again, due to the emulsified linseed oil backbone, the Clear Base will cure and age to a soft amber tone, identical to linseed oil in turpentine but without the flammability or combustibility issues inherent in the older blends.

EMTECH WR4000 Stain System is primarily designed for furniture and interior architectural applications. Moderate UV exposure for indirect exterior applications will not damage or fade these colors over a short course of time.

The EMTECH WR4000 Stain System **is 100% compatible with all Target Coatings water-based wood finishes.**

Physical Specifications (Clear Base)

Solids by weight:	24.0 – 26.0%nv	VOC:	170 Grams per Litre
Weight:	8.50 lb./Gal.	HAPS:	0.0
Viscosity:	20 sec. Zahns 2 Cup	pH:	8.0 –8.5
Shelf Life:	24+ Months	Flash Point:	212°F (100°C)



DIRECTIONS FOR USE

1. Ensure that all surfaces to be stained are free of any contamination that may cause poor adhesion or leveling. Thoroughly clean the surface to be stained with denatured alcohol or clear, fresh water before proceeding. If water is used, remove any grain rise with the appropriate grit, stearate-free sandpaper required for good grain control.
2. After production sanding, continue to sand with stearate-free paper up to a minimum of 220-grit. This will help eliminate any production sanding defects and eliminate grain rise. Remove all sanding dust before applying stain. **DO NOT USE WAX/OIL based tack clothes.**
3. Thoroughly mix the contents of the **EMTECH WR4000 Stain** before applying. Apply stain evenly via rag, brush or spray gun. Allow stain to penetrate into the wood grain, then wipe off excess stain to control color tone and color depth. Allow the stain to dry until the surface is no longer tacky to the touch. Reapply stain as required to maintain color continuity. Allow the last coat of stain to dry for a minimum of 2 hours at moderate room temperatures before applying EMTECH sealers and topcoats.

EMTECH WR4000 Clear Stain Base can be custom tinted with a variety of water-based dye and pigment colorants.

Recommended Tinting Colorants & Percentages by Liquid Volume:

Water Soluble Dye: 0.50- 10.0+% by liquid volume.

Mixol Pigments: 1.0-10.0+% by liquid volume.

Golden Fluid Acrylics: 1.0- 6.0% by liquid volume.

Clean-Up:

All Target Coatings® Water-Based finishes clean up with soap and water. Rinse brushes, spray equipment and other application tools with warm, soapy water, then follow up with a plain, clean water rinse. Do not use alcohol or oil-based solvents to thin or clean up this material.

EMERGENCY FIRST-AID PROCEDURES

INGESTION: Administer large volumes of water. 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.



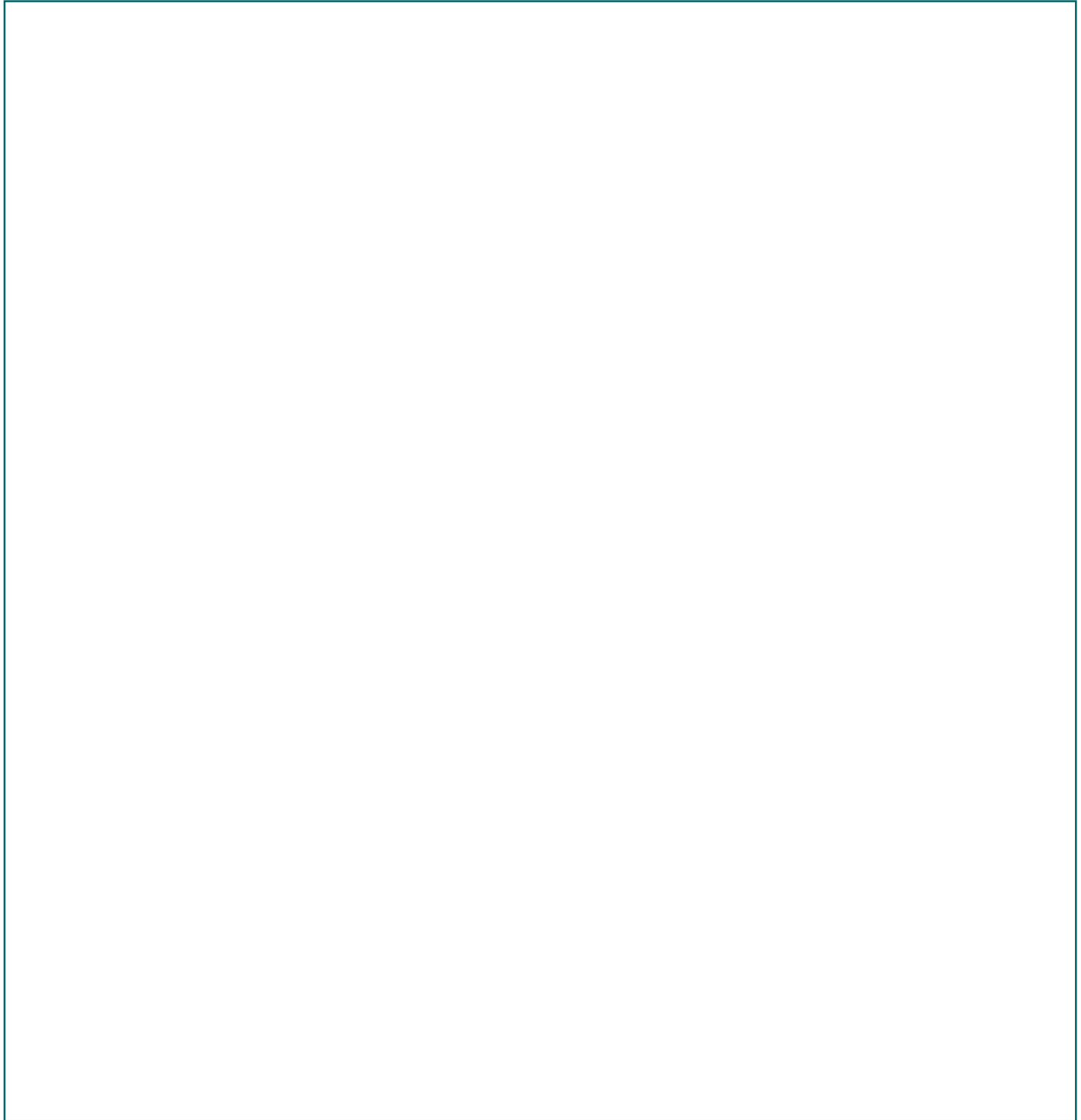
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TECHNICAL INFORMATION



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