

Universal Hi-Build™

UNIVERSAL WATER BASE CLEAR UNDERCOATER

Product Code: **280189**

Universal Hi-Build™ Water Base Clear Undercoater is a tintable single component, high solids 'Universal Sealer' for use under either Water Base or Solvent Base Clear or Opaque Finishes.

Ideal For

Doors and Millwork
Fixtures & Displays
Furniture
Cabinets & Casegoods

AIM compliant 275 g/l VOC
NESHAP compliant—JJ (furniture)
NESHAP compliant—QQQQ (doors & windows)

Benefits

Compatible with most water base and solvent base topcoats
Tintable to achieve deep tone colors
Non-yellowing
Exceptional adhesion
Tannin blocking properties
High Solids
Fast dry
Excellent sandability
Easy to use- very low odor
Ultra-low VOC- and HAP

APPLICATION DATA

SURFACE PREPARATION: "White sand" wood with maximum 150 grit aluminum oxide sandpaper. Remove all sanding dust. Keep free of dirt, grease, silicone oils, lubricants and other contaminants.

APPLICATION EQUIPMENT: This product is designed for spray application through all types of spray equipment. Use corrosion resistant equipment with water base products. Recommended settings below are with trigger pulled:

Airless	No thinning required. 1200 to 1600 psi 413 spray tip. Note: Double orifice fine finish tips are NOT recommended.
Air Assist	No thinning required. 700 to 900 psi fluid pressure 15 to 20 psi air cap, 411 spray tip.
HVLP	Thin up to 10% with clean water. 32-34 psi air cap 1.4 to 1.8 fluid nozzle

THINNING: This product is designed to spray at package viscosity. Thinning is not recommended. However, if thinning is desired, thin sparingly with water. Thinning will reduce film build and may increase grain raise.

Note: *Thinning requirements may vary with changes in temperature and spray room conditions.*

AGITATION: This product must be kept under slow, constant agitation, to ensure proper mixing. Do not shake.

CLEAN UP: Use soap and water for wet product. For dried finish clean up, use lacquer thinner compliant with local air quality rules & regulations.

FINISHING SYSTEM

STAIN: When staining wood, use Rudd Colortools™ Water Base Spray Only Stain or Colortools™ Water Base Wiping Stain.

SEAL: To achieve maximum tannin blocking and hold out, apply **TWO** coats (3-5 mils wet) of Universal Hi-Build Water Base Clear Undercoater. Allow each coat to dry 45 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: One to two top coats following application instructions for selected coating.

If desired, additional coats may be applied up to a total dry film of 5.0 dry mils.

*Dry times will vary with film thickness, temperature, humidity and air movement.

SAFETY PRECAUTIONS

Avoid breathing vapors, use a NIOSH approved cartridge respirator. Use pre-filters to avoid breathing spray particles or sanding dust.

Read Safety Data Sheet and label before using.

SPECIFICATIONS	
Coverage	600 square feet per gallon @ 1 dry mil film thickness
Viscosity	67 KU (Krebs Units @ 75° F)
Sag Resistance	5-6 mils vertical @ 65-70° F
Solids	40.7% by weight 3.48 lbs per gallon
VOC (Volatile Organic Compounds)	Calculated: 98 g/l (0.815 lb/gal)
(Hazardous Air Pollutants)	Pounds per Gallon: 0.003 Pounds HAP per Pound Solids: < 0.8 (actual 0.001) Pounds HAPs per Volume Solids: < 0.48 (actual 0.007)
Dry to Sand	45 minutes @ 65-70° F
CAUTION: Thinning will reduce film build.	

APPLICATION PRECAUTIONS

Dry times may vary due to environmental controls, humidity and application methods.

Keep container closed when not in use. Store in the original container.

Do not store above 100°F (38.8°C). **Keep from freezing.** For best results, use within 12 months of manufacture date.

Achieve deep tone colors with Colortools™ Water Base Colorants. **Do not exceed 8 fluid ounces of colorant and/or dye per gallon of coating when tinting.** Stir thoroughly. Do not shake (or be sure to allow sufficient time for bubble release after shaking).

Not recommended for use as an exterior finish.

The use of stainless steel application equipment is recommended.

Finish, substrate and curing temperatures should remain above 60°F, extremes of temperature and humidity may affect product performance.

Total film build of finishing system must not exceed 5.0 dry mils.

This product has been tested on a limited number of substrates and over a limited number of coatings. The user is responsible for testing suitability and performance for their specific application.

Shipping & Storage Information

OSHA Flammability Class: Not applicable

DOT Class: Not regulated

KEEP FROM FREEZING



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