

DuraWave[™]

WATER BASE CLEAR 1K/2K POLYURETHANE

Product Code: **280300**

DuraWave[™] Water Base 1K/2K Clear Polyurethane is a two-component, post catalyzed high performance finish ideal for cabinets or interior wood products. The perfect solution for on-site applications without the hazards associated with spraying traditional isocyanate or aziridine catalyzed urethanes.

Ideal For

Cabinets
Fixtures & Displays
Casegoods
Door and Millwork

Meets KCMA performance standards
AIM complaint 275 g/l VOC
NESHAP compliant—JJ (furniture)
NESHAP compliant—QQQQ (doors & windows)

Benefits

Non-yellowing
Can be used as 1K or with isocyanate/aziridine-free catalyst
Very low odor
Exceptional adhesion
High Solids
Fast dry
Excellent mar resistance
Can be used self-seal
Easy to use
Super-Low 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: DuraWave[™] 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. 1000 to 1200 psi 409 spray tip. Note: Double orifice fine finish tips are NOT recommended.
Air Assist	No thinning required. 500 to 700 psi fluid pressure, 10 to 12 psi air cap, 409 spray tip.
HVLP	No thinning required. 28 psi air cap 1.4 fluid nozzle

THINNING: This product is designed to spray at package viscosity. Thinning is not recommended. However, if thinning is desired, thin up to 10% with clean 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 and to prevent sheen variations. **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

MIXING DIRECTIONS: If desired, add 6 fluid ounces of Rudd 03-801 Water Base 2K Urethane Catalyst per gallon of coating. Stir well during and after adding catalyst.

POT LIFE: 1 day (24 hours) @ 65-70°F.

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

SEAL: Apply one coat Rudd Universal Hi-Build Water Base Clear Undercoater or one coat (3-5 mils wet) of 280300 DuraWave Clear 1K/2K Polyurethane as its own sealer and allow to dry 55 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply two coats (3-5 mils wet) of DuraWave Clear 1K/2K Polyurethane. Allow 55 minutes* dry time and sand with 220/320 grit silicon carbide sandpaper between coats.

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 Material Safety Data Sheet and label before using.

FINISH PERFORMANCE TESTING

SPECIFICATIONS

KCMA	
Vinegar	2K - No Visual Effect
Lemon Juice	No Visual Effect
Orange Juice	No Visual Effect
Grape Juice	No Visual Effect
Catsup	2K - No Visual Effect
Olive Oil	No Visual Effect
100 Proof Alcohol	No Visual Effect
Hot Coffee	No Visual Effect
Edge Soak	Passed 24 hr KCMA test with no softening, discoloration or film defects
Cold Check	Passed 20 cycles @ 5 mils dry film
OTHER	
Hot Water Ring	Passed at 190° F after 1 hour
Pencil Hardness	2K-Passed 2B 1K-Passed 3B
Mar Resistance	Excellent
Adhesion	Excellent

Coverage	~460 square feet per gallon @ 1 dry mil film thickness
Viscosity	84 KU (Krebs Units @ 75° F)
Sag Resistance	5 mils vertical @ 65-70° F
Solids*	31.4-33.2% by weight 2.78-2.87 lbs per gallon
VOC* (Volatile Organic Compounds)	Calculated: 228-233 g/l (1.90-1.95 lb/gal) Catalyzed <275 g/l (2.3 lb/gal)
HAP* (Hazardous Air Pollutants)	Pounds HAP per Gallon: 0.102-0.103 Pounds HAP per Pound Solids: < 0.8 (actual 0.036-0.037) Pounds HAP per Volume Solids: < 0.48 (actual 0.354-0.361)
Dry to Sand	All coats: 55 minutes @ 65-70° F
Block Free	6 hours @ 5 mils wet
Sheen	HSG: 70, SG: 40, ST: 20, FL: 10
*Variations depend on gloss CAUTION: Thinning will reduce film build and increase VOCs.	

*** Contact your Sales Representative for available package sizes.***

APPLICATION PRECAUTIONS

Catalyze with 6 fluid oz. of 03-801 WB 2K Urethane Catalyst to achieve maximum hardness and chemical resistance. 24 hour pot life. No Isocyanates. No Aziridine.

This coating may be used without catalyst when finishing products where additional hardness and chemical resistance is not required.

Spray at package viscosity with airless or air-assisted airless. Thin up to 10% with water for conventional spray equipment. Note: thinning will increase dry times and reduce build and vertical hang. Use corrosion resistant equipment with water base products.

Sand between all coats to ensure proper adhesion.

Tint only with Colortools™ Water Base Colorants or Dyes. Do not exceed 8 fl. oz. of colorant/dye per gallon of coating.

This product is not recommended for exterior use.

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

Total film build of 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.

Do not store above 100°F (38.8°C). Keep from freezing. Best if used within 12 months of manufacture date.

Designed for professional use by spray application only.

Read label and SDS of both components before using as 2k Coating.

KEEP FROM FREEZING

Shipping & Storage Information

OSHA Flammability Class: Not applicable

DOT Class: Not regulated



RUDD COMPANY, INC
Manufacturers of Quality Coatings Since 1912

Gemini Industries, Inc. • 421 SE 27th St. • El Reno, OK 73036
ruddwoodfinishes.com • 800 262-5710

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