



Commercial Performance Coatings

WTR-200

CPC104

Water Reducible Alkyd Enamel

PRODUCT DESCRIPTION			
WTR-200 WATER REDUCIBLE ALKYD ENAMEL			
COMPONENT A			
TYPE: Water Reducible Alkyd RECOMMENDED USE FAST DRYING INTERIOR/EXTERIOR WATER REDUCIBLE ENAMEL INTENDED FOR INDUSTRIAL USE ON BARE OR PRIMED METAL SURFACES. SUITABLE APPLICATIONS INCLUDE METAL FABRICATION, CABINETS, SHELVING, AGRICULTURAL EQUIPMENT AND TRAILERS. ONCE FORMULATED, BATCHES AS SMALL AS ONE GALLON CAN BE REPRODUCED TIME AFTER TIME WITHOUT THE COLOR DRIFT PROBLEMS ASSOCIATED WITH MANUAL SMALL BATCH METHODS.			
PHYSICAL CONSTANTS			
WEIGHT PER U.S. GALLON (MIXED) (varies by color) 8.4 - 10. lbs/gal PERCENT SOLIDS BY WEIGHT (MIXED) (varies by color) 32.0% ± 5% PERCENT SOLIDS BY VOLUME (MIXED) (varies by color) 27.0% ± 3%		FLASH POINT WTR-200 106 °F (41°C) VOC (MIXED) 2.8 lbs/gal 340 g/l Note: In special circumstances formulation could exceed 2.8 VOC.	
READY TO SPRAY VISCOSITY (varies by color) 25 to 40 #3 Zahn		#2 Zahn N/A	
PERFORMANCE FEATURES			
PENCIL HARDNESS F – H FLEXIBILITY (CONICAL MANDREL) ASTM D522 Pass FADE RESISTANCE Good 200 HOUR HUMIDITY RESISTANCE Good		SHEEN 90+ gloss @ 60 degrees ADHESION Good IN SERVICE TEMPERATURE LIMITATIONS 120°F Note: As you approach 120°F, depending on the pigmentation, the color may change, but film integrity will be maintained until 120°F	
CHEMICAL/SOLVENT RESISTANCE			
10% SULFURIC ACID	Very Good	10% HYDROCHLORIC ACID	Excellent
10% AMMONIA	Excellent	10% SODIUM HYDROXIDE	Excellent
XYLENE	Very Good	ISOPROPYL ALCOHOL	Excellent
OIL	Excellent	GASOLINE	Very Good
500 HOURS SALT SPRAY	Excellent.		
WATER RESISTANCE: Resistant to intermittent exposure. Not recommended for immersion service			



SURFACE PREPARATION

The surface to be coated must be sanded, free of all contamination, including dust, dirt, oil, grease and oxidation. Chemical treatment or the use of a conversion coating will improve the adhesion and performance properties of the finished coat.

Metal	Recommended Primers	Direct To Properly Treated Substrate
Cold Rolled Steel	Water reducible alkyd primer (if needed)	Good
Hot Rolled Steel	Water reducible alkyd primer (if needed)	Good
Galvanized	Not recommended	Not Recommended
Galvaneal	Not Recommended	Not Recommended
Aluminum	Water reducible alkyd primer (if needed)	Fair

APPLICATION DATA

MIXING DIRECTIONS

Mix THOROUGHLY BEFORE AND OCCASIONALLY DURING USE

THINNING

Ready to Spray
Up to 10% with Water if needed

POT LIFE

None

RECOMMENDED WET FILM BUILD (unreduced)

Spray Application: 3.0 – 6.5 mils

RECOMMENDED DRY FILM BUILD

1.0 – 2.0 mils

Application of film thickness in excess of that recommended for this product will substantially extend dry time and lengthen the recoat window.

APPLICATION EQUIPMENT

Conventional Spray: 45 - 60 psi at the gun.
Airless: Pressure 1400-2000 psi, tip: 0.013" – 0.017"
AA Airless: Pressure 850 psi, tip: 0.011" – 0.015"
Brush: Polyester or nylon Roll
Roll : Short nap

DRYING TIME

3 mils wet at 77°F (25°C) and 50% relative humidity.

To Touch: 20-40 minutes
To Handle: 1½ - 4 hours
Recoat: Less then 8 hours, more than 48 hours

Force Dry: allow 10 minutes air dry
Bake: 15 minutes @ 160 °F
Bake: 20 minutes @ 140 °F
Bake: 30 minutes @ 120 °F

NOTE: Poor Air Movement and High Humidity will slow dry times

*This condition does not mean that the paint film has reached full cure. It is a stage where handling can be achieved without loosening, wrinkling or otherwise marring the film under minimal pressure from fingers or hands.

Drying time listed may vary, depending upon film build, color selection, temperature, humidity and degree of air movement. Paint film is not fully cured for 7 days. Film in excess or below these recommended film builds may cause problems such as, adhesion failure, pigment floatation, solvent popping, slow cure, accelerated gloss and color failure.

RECOMMENDED SPREADING RATE

433 sq. ft. at 1.0 mil dry film per U.S. gallon (varies by color). Coverage figures do not include losses due to mixing, transfer or application of coating or losses due to surface irregularities or porosity.

CLEAN UP

Soap and Warm Water

APPLICATION PRECAUTIONS AND LIMITATIONS

6 month shelf life
Protect from freezing

SPRAY APPLICATION	SPRAY EQUIPMENT	PRESSURE POT	PRESSURE (PSI)	ATOMIZING AIR (PSI)	TIP
Conventional	Binks 95SL *	¼" Fluid	60	5-7	66 SK
Conventional	Graco Delta Air *	¼" Fluid	60	5-7	.042

RTS Combinations:

Volume Ratio
Applicable Use Category
VOC Actual (g/L)
VOC Actual (lbs./gal.)
VOC Regulatory (less water less exempt) (g/L)
VOC Regulatory (less water less exempt) (lbs./gal.)
Density (g/L)
Density (lbs./gal)
Volatiles wt. %
Water wt. %
Exempt vol. %

WTR-200

As is
Single-Stage Ctq.
120 - 132
1.00-1.10
303- -322
2.53 -2.69
1022 -1162
8.53 -9.70
61.0 -70.5
50.1 - 57.6
00.0 – 00.0



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SAFETY

These materials are designed for application only by professional, trained personnel, using proper equipment under controlled conditions and are not intended for sale to the general public. Safe application of paints and coatings requires knowledge of equipment materials and individual training. Directions and precautionary information on both equipment and products should be carefully read and strictly observed for personal safety and property protection. Consideration must be given to eliminate conditions, which may generate hazardous atmospheres during spray application or subject operators or bystanders to injury or illness. Special precautions must be taken when utilizing spray equipment, particularly airless equipment. High-pressure injection of coatings into the skin by airless equipment may cause serious injury requiring immediate medical attention at a hospital. Treatment advice may also be obtained from Poison Centers. Air quality should be maintained with adequate ventilation; applicators can achieve additional protection by wearing respirators and other protective garments such as gloves and overalls. In all cases, wear protective eye equipment. During the application of all coatings materials, all flames, welding and smoking must be prohibited. Explosion proof equipment must be used when coating these materials in confined areas.

PRECAUTIONARY INFORMATION

Before using the products listed herein, carefully read each product label and follow directions for its use. Please read and observe all warnings and precautionary information on all product labels. Prevent all contact with skin and eyes and breathing of vapors and spray mist. Repeated inhalation of high vapor concentrations may cause a series of progressive effects including irritation of the respiratory system, permanent brain and nervous system damage and possible unconsciousness and death in poorly ventilated areas. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

KEEP OUT OF THE REACH OF CHILDREN

MEDICAL RESPONSE

Emergency Medical or Spill Control Information (304) 843-1300. CANADA (514) 645 - 1320 Have label information available.

MATERIAL SAFETY DATA SHEET

Material Safety Data Sheets for the PPG products mentioned in this publication are available through your PPG Distributor.

FOR ADDITIONAL INFORMATION REGARDING THIS PRODUCT, SEE THE MSDS AND LABEL INFORMATION.

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