



WTR-200

CPC 104

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:

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.

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 to 6.5 mils

RECOMMENDED DRY FILM

1.0 to 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.

DRYING TIME

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

To Touch: 20 - 40 minutes

To Handle: 1 1/2 - 4 hours*

Recoat: Less than 8 hours, more than 48 hours

DRYING TIME (CONT.)

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, and 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:

| | WTR-200 |
|---|------------------|
| Volume Ratio: | As is |
| Applicable Use Category | Single-Stage Ctg |
| VOC Actual (g/L) | 120 - 132 |
| VOC Actual (lbs/gal) | 1.00-1.10 |
| VOC Regulatory (less water less exempt) (g/L) | 303- -322 |
| VOC Regulatory (less water less exempt) (lbs/gal) | 2.53 -2.69 |
| Density (g/L) | 1022 -1162 |
| Density (lbs/gal) | 8.53 -9.70 |
| Volatiles wt. % | 61.0 -70.5 |
| Water wt. % | 50.1 - 57.6 |
| Exempt wt. % | 0.0 |
| Water vol. % | 58.4 - 59.5 |
| Exempt vol. % | 0.0 |

TO THE BEST OF OUR KNOWLEDGE, THE TECHNICAL INFORMATION IN THIS BULLETIN IS ACCURATE; HOWEVER, SINCE PPG INDUSTRIES, INC. IS CONSTANTLY IMPROVING ITS COATINGS AND PAINT FORMULAS, THE CURRENT TECHNICAL DATA MAY VARY SOMEWHAT FROM WHAT WAS AVAILABLE WHEN THIS BULLETIN WAS PRINTED. CONTACT YOUR PPG DISTRIBUTOR FOR THE MOST UP-TO-DATE INFORMATION

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.

PPG Industries
Commercial Coatings
We're Everywhere You Look

PPG Industries
19699 Progress Drive
Strongsville, OH 44149
1-800-647-6050

PPG Canada Inc.
2301 Royal Windsor Drive
Mississauga, Ontario L5J 1K5
1-888-310-4762

