



# Water-Reducible Air-Dry Enamel

Fast drying, water-based industrial enamel

## Description

- Water-based, air-dry coating for protection and decoration of metal and timber surfaces

## Properties

- Fast drying
- Low foaming and early water / humidity resistance
- Good exterior durability
- Low volatile organic compounds (VOC)

## Typical Applications

- Steel fabrications such as scaffolding, garden implements.
- Refurbishment of Containers.
- Timber (garden implement handles etc.,)

## General Data

- Weather resistance Generally good; chalking may occur with lengthy exterior exposure, but film integrity should not be affected
- Solvent resistance Generally fair; resists splashes of hydrocarbon solvents. Not recommended for continuous immersion.
- Chemical resistance Fair
- Abrasion resistance Good
- Recommended primers Priming of substrates is generally not necessary

## Specifications (at 25°C and 50% relative humidity)

- Resin type.....Styrene acrylic copolymer
- Typical solids content.....Dependent on colour approx 46% (by volume)
- pH.....8.5 - 9.5
- Specific Gravity.....1.03 - 1.06
- Typical film thickness (per coat).....22 microns (dry)  
50 microns (wet)
- Theoretical coverage.....12m<sup>2</sup> / L @ 25 microns dry film thickness (dependant on colour)
- Touch dry.....45 - 60 minutes
- Hard dry.....Overnight
- Gloss.....Gloss
- Colours.....Clear and various colours
- Shelf life.....minimum 12 months (in cool, dry conditions)

## Surface Preparation

- Water based paints have a much lower tolerance to oil & grease than solvent borne paints, to ensure good adhesion a high standard of oil & grease removal is required
- Bare steel surfaces should have rust and scale removed with abrasive paper or wire brush
- Wipe with clean solvent and rags to remove grease and any other residues
- Timber should be sanded and free from dust and other contaminants

## Mixing recommendation

- Mix the entire contents of the can before decanting
- Stir thoroughly with a broad paddle or mechanical mixer to ensure even consistency of the product
- Normally applied at package viscosity. If necessary, thin up to 5% by volume with water and stir as above

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## Application

- Application should not be carried out if the air temperature or the substrate temperature is below 10°C or when humidity is very high. The temperature must not fall below 10°C during the drying process. Do not apply when rain or dew is expected in the next 16 hours unless within a warm heated & enclosed environment
- May be spray applied using airless or conventional air spray equipment
- May be dip applied
- Small areas may be coated by brush
- **Airless Spray** nozzle size.....0.33 – 0.38 mm  
nozzle pressure.....2000 – 2500 psi (14 - 17mPa)  
volume of thinner.....not required
- **Air Spray** nozzle size.....1.6 – 2.0 mm  
nozzle pressure..... 45 – 60 psi (300 - 400kPa)  
volume of thinner..... up to 5%
- **Cleaning solvent** ..... Water
- Clean equipment after use with plenty of water, then flush the spray line with T13 Methylated Spirits to eliminate any residual water

## Safety precautions

- **Refer to the relevant Material Safety Data Sheet**
- Contents are non-flammable
- Avoid contact with skin and eyes – when mixing, wear gloves and safety glasses
- When spraying, ensure adequate ventilation and wear appropriate protective clothing and equipment

**Packaging Group** Not applicable **UN No.** Not applicable

**Pack sizes** 20 litre, 200 litre

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These technical data and recommendations are based on tests and information believed to be accurate at the time of printing. They should not be construed as containing any warranty, either expressed or implied. Users should conduct their own tests to determine final suitability of this product.



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