

# FAST DRY 4190

## DESCRIPTION

One-component, quick dry universal primer

## PRINCIPAL CHARACTERISTICS

- Ideal for structural steel, tank exteriors, and equipment
- Fast drying properties
- Corrosion resistant in normal atmospheric conditions
- Interior or Exterior Usage
- Easy application
- Contains no reportable organic HAPS
- May be topcoated on ferrous metal with epoxy and polyurethane coatings as well as conventional alkyds and latex products

## COLOR AND GLOSS LEVEL

- Gray, White, Red
- Flat

## BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	56 ± 2%
VOC (Supplied)	max. 2.8 lb/US gal (approx. 338 g/l)
Recommended dry film thickness	2.0 - 3.0 mils (50 - 75 µm) depending on system
Theoretical spreading rate	449 ft <sup>2</sup> /US gal for 2.0 mils (11.2 m <sup>2</sup> /l for 50 µm)
Shelf life	At least 36 months when stored cool and dry

### Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is, in general, proportional to the degree of surface preparation

### Steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Abrasive blast cleaning to SSPC SP-6 standards will give optimum performance
- Where abrasive blasting is not practical, power tool cleaning in accordance with SSPC SP-3 or hand tool cleaning to SSPC SP-2 requirements is acceptable



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## **Previously painted surfaces**

- Wash to remove contaminants
- Rinse thoroughly with water and allow to dry
- Sanding is not required if the surface is properly and thoroughly cleaned (scuff sanding is required only on glossy, hard, slick, or dense surfaces which are subject to high levels of moisture)
- Remove loose paint
- Scrub heavily chalked exterior areas and overhead areas such as eaves with soap and water
- All existing mildew must be removed by washing with a solution of 16 oz (473 ml) liquid household bleach and 2 oz (59 ml) non-ammoniated liquid detergent per gallon (3.785 L) of water. Rinse surfaces clean with water and allow to dry for 24 hours
- Spot prime bare areas with this product

## **Substrate temperature and application conditions**

- Surface temperature during application should be between 50°F (10°C) and 120°F (49°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 45°F (7°C) and 100°F (38°C)
- Relative humidity during application should be above 0% and below 85%

## **Warning**

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSH approved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

## **SYSTEM SPECIFICATION**

- Primers: Direct to metal
- Topcoats: Conventional alkyd or latex, epoxy, and urethane coatings

## **INSTRUCTIONS FOR USE**

- Inspect the top surface and remove any "skins" that may have formed on top
- Agitate with a power mixer for 1 – 2 minutes until completely dispersed. Ensure good off-bottom mixing

## **Application**

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

## **Material temperature**

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)



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**Air spray**

- Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.

**Recommended thinner**

No thinner should be added

**Nozzle orifice**

Approx. 0.070 in (1.8 mm)

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**Airless spray**

- 30:1 pump or larger
- Adjust pump pressure as needed

**Recommended thinner**

No thinner should be added

**Nozzle orifice**

0.015 – 0.017 in (approx. 0.38 – 0.43 mm)

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**Brush/roller**

- Use a high quality natural bristle brush and/or solvent resistant, 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

**Recommended thinner**

No thinner should be added

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**Cleaning solvent**

Paint thinner (lacquer thinner or mineral spirits)



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## ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm )		
Overcoating with...	Interval	77°F (25°C)
itself	Minimum	30 minutes
	Maximum	Extended
alkyds	Minimum	4 hours
	Maximum	Extended
Latexes	Minimum	16 hours
	Maximum	Extended
Epoxies	Minimum	20 minutes
	Maximum	Extended
polyurethanes	Minimum	20 minutes
	Maximum	Extended

**Notes:**

- Overcoating times valid for a relative humidity of 50%
- Drying times may vary depending on temperature, humidity, and air movement

Curing time for DFT up to 2.0 mils (51 µm )		
Substrate temperature	Dry to touch	Dry hard
77°F (25°C)	20 minutes	1 hour

Note: Curing times valid for a relative humidity of 50%

### Product Qualifications

- Meets MPI category #173, Shop Coat, Quick Dry, for Interior Steel
- Meets MPI category #275, Primer, Quick Dry, for Shop Application to Interior Steel

### DISCLAIMER

### SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

### Danger

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Refer to [www.pittsburghpaints.com](http://www.pittsburghpaints.com), Spontaneous Combustion Advisory for additional information



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## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

## REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

## LIMITATIONS OF LIABILITY

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## AVAILABILITY

### Packaging

1-gallon and 5-gallon containers  
53-gallon drum

Product codes	Description
4190-1000	White
4190-6120	Gray
4190-7100	Red

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