

Defender PR50

Fast Cure Polyurethane Primer for Steel



Description

Defender PR50 is a VOC-compliant, fast cure, high-performance polyurethane primer. **Defender PR50** provides excellent barrier protection against corrosion. It can be re-coated quickly and gives very high bond strength. **Defender PR50** is typically used to prime steel substrates which will be post-finished with a polyurethane or polyurea elastomer.

Technical Data

Application Properties

Mix Ratio, by volume A to B	*Values 1A:2B (5 gallon buckets = 15 gallon kit)
Solids, percent by volume	25%
Solids, percent by weight	48%
VOCs, lbs/mixed gallon	2.8 lbs.
Recommended Thickness	0.5-1.5 mils dft

Physical Properties

Product Color - Part A	Non-pigmented
Product Color - Part B	White
Cure to Touch, min @ 77°F	5 minutes
Pot Life, min @ 77°F	2 hours
Recoat Window, 77°F Salt	After 5 minutes & within 2 hours
Fog Spray, hrs	>1,000 hrs

Application Temperature

Substrate	30°F to 110°F
Ambient	30°F to 110°F

Application

Defender PR50 is mixed 1 part A to 2 parts B and does not require thinners. It can be brush, roller or spray-applied to the substrate at dry film thickness of 0.5-1.5 mils.

*Values were obtained in a laboratory setting for comparison purposes only, and should not be considered exact specifications.

*Be sure to consult with an **umi coatings** representative for equipment and application training.*

Safety

Defender PR50 is for industrial use only. Avoid contact with eyes and skin. Do not inhale or ingest. When spraying, wear a respirator or a fresh air hood. Spraying indoors requires forced ventilation. Consult the SDS in its entirety prior to using.

Packaging, Storage, & Shelf Life

Defender PR50 is available in 5 gallon buckets (equaling a 15 gallon kit). For smaller jobs, it can also be purchased in 1 gallon pails (equaling a 3 gallon kit). It should be stored in sealed containers between 60°F and 90°F. Shelf life is 12 months when stored under normal conditions.

Features

Excellent Adhesion

Defender PR50 is formulated to provide excellent adhesion to blasted and unblasted steel substrates.

Corrosion Resistant

Defender PR50 is formulated with a high loading of corrosive inhibitive additives, making it suitable for use in chemically aggressive environments, and helping to provide a long service life in harsh conditions.

Cures Fast in Cold Weather

Defender PR50 has an excellent cure profile, even in cold weather conditions.

VOC Compliant

Defender PR50 is VOC Compliant for most applications.



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