



2870 CRESTWOOD BLVD. STE B
IRONDALE, AL 35210
205-857-0040



DEFENDER

Defender PR58

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Defender PR58 is a two component, NSF-61 approved liquid applied epoxy primer. This primer has been developed for use on carbon steel, non-ferrous metal, fiberglass, PVC pipe, as well as concrete and masonry.

FEATURES

- Low Viscosity Epoxy Coating
- Provides Limited Chemical Resistance
- Surface Tolerant Primer/Sealer
- Versatile Application: Spray, Roll or Brush
- UL-NSF-61 Approved for Potable/Drinking

TYPICAL USES

- Chemical & Pharmaceuticals Industries
- Concrete Floors and Decks
- Food Processing Facilities
- Industrial Flooring
- Mining and Milling Industry
- Petrochemical Plants
- Power Generating Plants
- Pulp and Paper Industry
- Steel Structures and Bridges
- Water & Wastewater Treatment Plants

PACKAGING

3-Gallon Kit

One 3.5 gallon pail, net fill 2 gallons (7.57 liters) of Side-A and One 1 gallon (3.78 liters) can of Side-B

15-Gallon Kit

Two 5 gallon (18.9 liters) pails of Side-A and One 5 gallon (18.9 liters) pail of Side-B



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BASED ON DRAW DOWN FILM

Coverage Rate	1 gal/300 sqft 0.14 l/sqm
Dry Film Thickness per Coat	4.5 ± 1 mils 102 ± 25 microns
Mixing Ratio	2A:1B
Pot Life at 75°F (24°C), 50% RH	20-30min
Specific Gravity	
Side-A	1.12 ± 0.1
Side-B	1.06 ± 0.1
Total Solids by Weight ASTM D2369	91 ± 2%
Total Solids by Volume ASTM D2697	90 ± 2%
Viscosity at 75°F (24°C)	1200 ± 200 cps
Volatile Organic Compounds ASTM D2369-81	0.75 lb/gal 90 gm/liters

COLORS

Side-A: Grey, Side-B: Clear

COVERAGE

The approximate coverage is 1 gallon/300 sqft (0.14 l/sqm) or 300 sqft/gallon. Coverage rate will depend on surface roughness and porosity.

SURFACE PREPARATION

In general, coating performance is directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants. Refer to General Guidelines for complete information.



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MIXING

The volume mixing ratio is 2 parts Side-A to 1 part Side-B (2A:1B). Do not mix in an up and down motion.

Defender PR58 Side-A and Side-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. Defender PR58 must always be mixed with two parts Side-A and one part Side-B (2A:1B). The combined components should be thoroughly mixed using a mechanical mixer at slow speed.

Defender PR58 may be diluted with Defender Reducer within the regional air pollution regulations. Clean all application equipment with appropriate solvents. Power stir product until uniform color appears, approximately 5 minutes.

Defender PR58 is very sensitive to heat and moisture. Higher temperature will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature extends the cure time and the use of accelerators may be necessary.

APPLICATION

Defender PR58 should be applied at the rate of 1 gallon (mixture of Side-A & Side-B)/300 sqft (0.14 liters/sqm). Coverage rate will depend on surface roughness and porosity. It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Application temperature for Defender PR58 should be between 60-95°F (15-35°C). Do not apply product unless temperature is at least 5° F (3°C) above the dew point. Re-coat schedule is 2-36 hours dependent upon environment. See Specification Guide for re-coating guidelines and additional information.

Airless Spray: Use Graco 28:1 pump or higher with a 1" fluid line, adjust pump pressure to the lowest possible setting that provides proper atomization. Equipment of equal performance is acceptable.

Conventional Spray: Variations of conventional production spray equipment such as pressure pot, air assisted, airless or high volume, low pressure systems as supplied by Graco or equal may be used. See Specification Guide for additional information.

Brush: Use mohair or natural bristle brush with featheredge.

Roller: Use phenolic core, short nap sheepskin or equal natural roller covers.



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CLEAN UP

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

STORAGE

Defender PR58 has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

LIMITATIONS

Defender PR58 should be coated within 36 hours after it has become tack free. Not UV stable. Surfaces must be dry, clean and free of foreign matter. Containers that have been opened must be used as soon as possible. Defender PR58 is difficult to clean up after it has cured. Mix no more material than can be used within minutes.

Warning: This product contains Epoxy Resin and Curatives.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy themselves, by their own information and test, to determine suitability of the product for their own intended use, application and job situation and user assumes all risk and liability resulting from their use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and UMI Coatings makes no claim that these tests or any other tests, accurately represent all environments.