formerly sold as Full Metal Jacket (FMJ) and VERSAFLEX® VF502

DESCRIPTION

Two-component, fast set, rapid curing, flexible, hybrid polyurea spray coating

PRINCIPAL CHARACTERISTICS

- Fast set
- · Fast return to service
- · Excellent adhesion to steel
- · Tough, flexible, and impact resistant
- · Remains flexible at lower temperatures
- Dry temperature resistance from -40°F (-40°C) to 250°F (210°C)
- Extremely tough monolithic membrane is created at a minimum thickness of 20 mils (25 μm)
- Insensitive to atmospheric moisture during application
- TYPICAL USES:
- Used where a seamless, flexible system is essential
- Pick-up truck spray-in bed liners
- Automotive service areas
- · Industrial and commercial interior
- Not recommended for direct contact with extremely high or low pH chemicals

COLOR AND GLOSS LEVEL

Black, Tan, Light Gray, Red, Blue

BASIC DATA AT 20°C (68°F)

| Data for mixed product | | |
|--------------------------------|-----------------------------------------------------|--|
| Number of components | Two | |
| Mass density | 8.7 lb/US gal (1.0 kg/l) | |
| Volume solids | 100 ± 2% | |
| VOC (Supplied) | EPA Method 24: 0.0 lb/US gal (0.0 g/l) | |
| Recommended dry film thickness | 60.0 - 100.0 mils (1524 - 2540 μm) per coat | |
| Theoretical spreading rate | 16 ft²/US gal for 100.0 mils (0.4 m²/l for 2540 μm) | |
| Dry to touch | 4 seconds | |
| Overcoating Interval | Maximum: 3 hours | |

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Truck bed surface

- · Remove the majority of the clear coat, exposing the painted surface; material will bond to paint.
- Use the following (or equivalent): DA air sander with 60-80 grit paper; electric 4" grinder with 36 grit alum oxide pad; or 80 grit nylon filament cup brush
- At perimeter, near Fiber Line tape: hand sand to edge of filament line with 120-180 grit paper
- The surface must be properly prepared, dry, clean and free of any contamination
- · Blow off all prepped surface with compressed air

Steel (atmospheric/non-immersion service)

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-6 cleanliness or higher. Achieve a surface profile of 3.0 mils (76 µm) or higher
- · Ensure surface is dust free after blasting

Non-ferrous metals

- · Abrasive blast in accordance with SSPC SP-16 guidelines
- Abrasive blast with non-metallic abrasive

Wood

- The surface must be properly prepared, dry, clean and free of any contamination
- . The use of primers on porous surfaces is recommended to reduce the chance of pin holing

SYSTEM SPECIFICATION

- Primers for Carbon Steel: PPG AQUATAPOXY® 190 Primer, PPG VERSAFLEX® 901 Primer
- Primers for non-ferrous metals: PPG VERSAFLEX® 901 Primer
- Primers for wood/fiberglass: PPG VERSAFLEX® 920 Primer
- Tie-Coat: PPG RAVEN® 161 Primer
- Recommended DFT for Concrete: 80-100 mils (2.0-2.5 mm)
- Recommended DFT for Steel (Carbon): 60-80 mils (1.5-2.0 mm)
- Recommended DFT for High Abrasion Service: 60-80 mils (1.5-2.0 mm)

INSTRUCTIONS FOR USE

- Application requires use of a heated plural component pump with impingement gun.
- Pump must be specifically designed for fast-set polyurea application, and capable of maintaining the specified temperature and dynamic pressure during application.

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Mixing ratio by volume: 1:1 (Part A to Part B)

- Prior to mixing, the temperature of Part A and Part B should each be at least 70°F (21°C)
- Mixer diameter should be 1/3 of the diameter of the container
- · Part B component must be thoroughly agitated prior to use
- . Mix Part B using three-tier, collapsible blade power mixer through the center bung hole
- Mix for at least 30 minutes prior to processing
- Properly mixed material will be a uniform color without light or dark spots
- For recommended application instructions, see working procedure

Application

- Apply in a uniform manner to desired thickness
- · Application thickness is determined by spray gun configuration and speed of application

Airless spray - Plural component

- Material requires heated plural component spray set-up with impingement gun
- · Material supply capacity should be 4 times the material output of the selected spray gun configuration
- · Heated hoses are recommended
- Processing equipment should be capable of maintaining set temperatures and pressure at rest and during operation

ADDITIONAL DATA

| Spreading rate and film thickness | | |
|-----------------------------------|----------------------------|--|
| DFT | Theoretical spreading rate | |
| 60.0 mils (1524 μm) | 27 ft²/US gal (0.7 m²/l) | |
| 80.0 mils (2032 μm) | 20 ft²/US gal (0.5 m²/l) | |
| 100.0 mils (2540 μm) | 16 ft²/US gal (0.4 m²/l) | |

| Additional drying/curing details | | | |
|----------------------------------|----------------|---------------|--|
| Substrate temperature | Tack free time | Gel time | |
| 72°F (22°C) | 3 - 4 seconds | 2 - 3 seconds | |

SAFETY PRECAUTIONS

• Read all label and Safety Data Sheet (SDS) information prior to use

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WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & 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

· Information sheet | Explanation of product data sheets

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