

VFI-3220 Modified Acrylic Traffic Coating

Product Data Sheet

BASIC USES & ADVANTAGES

VFI-3220 Pavement Coating is combined with V Colorants to offer a wide range of colors and can also be combined with Solar Reflective (SR) Colorants to produce a cool pavement surfaces for compliance with LEED specifications for urban heat island mitigation and to provide more comfortable environments. VFI-3220 Pavement Coating is also used in the Premium System.

VFI-3220 Pavement Coating meets EPA requirements for Volatile Organic Compounds (VOC) and creates no unpleasant odors during or after installation. VFI-3220 Pavement Coating is fully recyclable with the asphalt. VFI-3220 Pavement Coating friction properties are suitable for both pedestrian and vehicular applications.

Uses:

- Asphalt parking lots, crosswalks, driveways, bus and cycle lanes, pathways, level and raised medians, entryways
- Asphalt preservation
- Can be used on concrete with surface primer

PRODUCT DESCRIPTION

VFI-3220 Pavement Coating is a two-component advanced waterborne epoxy-modified acrylic coating specifically designed for application on textured (stamped) or non-textured (flat) asphalt pavements. One of VFI-3220 Pavement Coating's most important characteristics is that, unlike normal waterborne coatings, VFI-3220 Pavement Coating's unique design allows it to maintain durability even when wet. VFI-3220 Pavement Coating's flexibility, adhesion and elongation allow for the expansion and contraction that is a characteristic of asphalt (flexible) pavements without cracking. VFI-3220 Pavement Coating extends asphalt life by providing protection from the harmful effects of oxidation due to UV exposure and weathering.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

One unit of VFI-3220 Pavement Coating consists of:

- (1) - 3.5 gallon (13.2 liter) bucket of Part A
- (1) - 1 quart (0.95 liter) container of Part B
- (1) - chosen VFI-3220 Pavement Coating Colorant (sold separately)

Shelf life 24 months if unopened containers stored between 40°F and 90°F (4°C and 32°C).

PRODUCT CHARACTERISTICS

| VFI-3220 Pavement Coating | |
|-----------------------------------|-------------------------------------|
| Density | 13.7 lb/gal, 1.65 g/mL [ASTM D1475] |
| Volume Solids | 59 (±2) [ASTM D2697] |
| Weight Solids | 72% (±2) [ASTM D1644] |
| VOC (calculated) | <25 g/L |
| Taber Abrasion (Dry - H-10 wheel) | 0.33 g/1000 cycles [ASTM D4060] |
| Taber Abrasion (Wet - H-10 wheel) | 0.14 g/1000 cycles [ASTM D4060] |
| Mandrel Bend | 1/8" @ 23°C [ASTM D522] |
| Water Absorption | 7.98% [ASTM D570] |
| Permeance | 5.6 perms [ASTM D1653] |
| Adhesion | 692 psi [ASTM D4541] |

| | |
|---------------------------------|---|
| Drying Time (Touch Dry) | 1-4 hours at 77°F (25°C) and 40% humidity [ASTM D5895] |
| Friction | Dry = 81.3 Wet = 77.3 [ASTME303] |
| Hardness | 80.8 [ASTM D2240] |
| Freeze Point | 32°F (0°C) |
| Application Temperature | +50°F to 105°F (Ambient) (10°C to 40°C) |
| Standard Colorants (17) | Bedrock, Black, Brick, Brown Suede, Burnt Sienna, Concrete Grey, Granite, Hunter Green, Marigold, Nutmeg, Pewter, San Diego Buff, Sierra, Slate, Sunset Blush, Taupe, & Terra Cotta |
| Solar Reflective Colorants (11) | SR White, SR Brownstone, SR Evergreen, SR Fawn, SR Irish Cream, SR Khaki, SR Safety Blue, SR Sandstone, SR Slate, SR Sun Baked Clay, & SR Terra Cotta |

APPLICATION INSTRUCTIONS

Mixing: Each mixed unit of VFI-3220 Modified Acrylic Traffic Coating consists of a Part A pail to which a Part B, your chosen colorant and 1 quart (0.95L) of water (empty part B can). Mix pail for 3 minutes. In warmer conditions add a total of 1.5 quarts (1.4L) of water to improve workability before mixing. In cooler conditions add only a total of ½ quart (0.47L) of water to improve dry time before mixing.

Surface Preparation: Dirt, debris, water and contaminants sitting on the surface will affect adhesion. Thoroughly clean surface using a broom and backpack blower or, in severe situations, use a power washer. Areas containing chemical contaminants such as vehicle fluids need to be treated using a degreasing solution. Proper removal of contaminants and degreasing solution is necessary prior to coating application. Care should be taken to ensure that the substrate is dry before applying the coating.

Consult the VFI-3220 Modified Acrylic Traffic Coating Substrate Guide if you are unsure of the quality of the surface. An environmentally friendly cleaner should be used. Adhesion promoter may be used for polished asphalt. Some concrete applications will require a primer. No precipitation should be expected within 24 hours.

Recommended Coverage Rate: VFI-3220 Modified Acrylic Traffic Coating may be applied in thin coats coat by brush, roller or textured sprayer. Typical pedestrian applications require 3 layers of coating. Vehicle applications require 4 layers or more depending on the amount of traffic.

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APPLICATION INSTRUCTIONS, CONT'D

Recommended Application Coverage Rates:

| ↓ OF LAYERS | COVERAGE (approx) | | THICKNESS (approx) | | | |
|-------------|------------------------|-----------------------|--------------------|-----|------|-----|
| | ft ² /unit* | m ² /unit* | WET | | DRY | |
| | | | mm | mil | mm | mil |
| 3 | 200 | 18.6 | 0.84 | 33 | 0.48 | 19 |
| 4 | 150 | 13.9 | 1.12 | 44 | 0.66 | 26 |
| 5 | 120 | 11.2 | 1.40 | 55 | 0.81 | 32 |
| 6 | 100 | 9.3 | 1.68 | 66 | 0.97 | 38 |

*1 unit is a nominal 5 gallon pail comprising Part A, Part B and Colorant (approximately 4.12 gallons). 1 unit when sprayed as a single layer covers approximately 600sqft (55.7 sqm), with an approximate thickness of 6.3mil (0.16mm) dry.

VFI-3220 Modified Acrylic Traffic Coating Sealer Concentrate can be applied to the surface of VFI-3220 Modified Acrylic Traffic Coating once the last layer of coating is dry to the touch. Coating must be allowed to cure before introducing traffic. Cure time vary based on climate conditions and range between 6-24 hours.

LIMITATIONS & PRECAUTIONS

Ambient and surface temperatures must be 50°F (10°C) and rising before coating application. Do not ship or store unless protection from freezing is available. Use VFI-3220 Modified Acrylic Traffic Coating concrete primers when applying to concrete substrates. No precipitation should be expected within 24 hours

CLEAN UP

Thoroughly rinse application equipment with clean water before it dries.

SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to the Safety Data Sheet (SDS).

See applicable warranties and guarantees for complete coverage and restrictions.

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