



SEI MOLD PROOFER® FLUOROBASE SMP-200

PRODUCT DESCRIPTION

The Mold Proofer Fluorobase is a highly fluorinated and extremely durable coating. It utilizes a proprietary fluoro-polyol synthesized by SEI that has the highest concentration of fluorine of any fluoro-resin on the market today. This provides unmatched anti-stick, self cleaning, chemical, UV and weathering resistant characteristics. This coating also incorporates a nanotechnological anti-abrasion additive and a zero VOC EPA registered antimicrobial. This multi-fascist coating inhibits the growth of microorganisms on the film, encapsulates odors and acts as a self-cleaning, maintenance free and stain-blocking coating. SMP-200 provides world class performance with an expected life span exceeding 20 years. This coating exhibits outstanding weathering characteristics and is ideal for limited immersion service on marine, aerospace, architectural, construction, industrial and automotive applications. SMP-200 can be applied to ceilings, roofs, sub floors, ductwork, walls, wallboard, plaster, drywall, mineral substrates, some plastics, interior/exterior wood, metals and aluminum. SMP-200 provides outstanding sealing (especially water extractives in redwood and cedar) and antifungal characteristics. Especially effective in tropical and high humidity areas that are subject to mold and fungus attack.

PERFORMANCE CHARACTERISTICS

- Ultimate mold, fungus, mildew resistance on the film
- Ultimate self cleaning maintenance free anti-stick properties
- Outstanding Hydrophobic and Oleophobic surface properties.
- Highly flexible, non-stick and outstanding impact and abrasion resistance.
- Resistant to attack by micro-organisms, hydrocarbons, chemical products and UV radiation.
- Nanotechnology provides excellent durability and adhesion with interior and exterior use.
- AQMD/VOC - 100 g/L
- Long-term performance
- Coverage: Approximately 300-400 sq. ft. per gallon
- Clear and in any color
- Gloss & low gloss

SPECIFICATIONS

- ASTM D5590, D3273, D3274: Microbiological Certification
- ASTM B 117 and ASTM D 714 - Salt Spray - 8000 Hours
- ASTM D 530
- ASTM 412 - tensile strength and elongation
- ASTM D 522 - pass 3/8 inch mandral
- ASTM 968 - abrasion
- Water-clear, non-yellowing, free of waxes and urethanes
- Non-toxic, non-flammable, biodegradable, pH 7-8.5
- Over 200 graffiti removals with no sign of coating deterioration
- MEK: No effect after 5-days
- Carboxylic Acid - No effect after 5-days
- 75% Phosphoric acid - No effect after 5-days
- 50% Sulfuric Acid - No effect after 5-days
- 37% HCL - 3 hours no blister
- 20% NIT 68 hours no blister

SURFACE PREPARATION

Suitable substrates include concrete, block, metal, galvanized metal, aluminum, fiberglass, carbon fiber and wood. Good surface preparation and cleaning of all substrates to be coated is essential for optimum performance of the coating system. All surfaces to be coated should be clean, dry and free from contaminants. For old or previously finished surfaces, the degree of preparation and cleaning required is dependent upon the condition of the substrate. Application direct to porous mineral materials may darken the substrate. To avoid this apply SEI's SCS-002/3//4 Sealer to prime the material and ensure color integrity of substrate.

MIXING & ACTIVATION

Mixing ratio 2:1 by volume (2 parts base to 1 part activator). Spray Viscosity: 21-25 seconds #2 Zahn SMP-200 is a two component coating system supplied in two separate containers. Part B is the base and Part A is the activator. Make sure the Activator flows uniformly; if the Activator is thick the product has been contaminated. Make sure both components are transparent unless using colored or matt versions. Prior to activation, Base Component (Part B) must be thoroughly mixed by mechanical agitation. Following agitation with a paint stick, ensure that all settled material is removed from the can bottom. After activation of Component B and Component A together, agitate for approximately 1-2 minutes. Reduce activated SMP-200 to a maximum of 15% if required with MAK reducer and use immediately. SMP-200 requires no induction period.

APPLICATION & COVERAGE

SMP-200 exhibits excellent opacity and coverage when spray applied. If applying colors by means other than spray, test opacity over a small section to ensure adequate coverage prior to general application. For optimum appearance properties - spray initial coat as a tack or fog coat to a minimum of 2 mils DFT / 50 microns DFT. Allow the first coat to "flash off" to a tacked state prior to applying a following coat - typically 10-20 minutes depending on climate and humidity. Can also be, brushed or rolled applied in one coat, unreduced to the recommended DFT. Must not be applied to surfaces at ambient temperatures above 35C / 95F. For optimum application properties, the temperature of the material should be between 10C and 25C / 50F and 80F prior to mixing and application. Apply the coating only when the surface temperature is more than 5F or 3C above the dew point temperature of the surrounding air and relative humidity is below 85%, in order to prevent moisture condensation on the surface. Always apply test area before proceeding with entire application. Product must be used within 6 months of purchase.

CLEANING & MAINTENANCE

SMP-200 can be cleaned by using neutral pH cleaners that are biodegradable. Acceptable cleaners may be applied to the dry film and then flushed off (200 psi max) with ambient temperature water. Cleaning compounds should not be left to dwell, penetrate and dry on the coatings film. High pressure water sprayers and high heat sprayers should not be used on the coating. All cleaners should be tested on the dry film before a full application. Adhesion at the corners of joints and seems should be checked and maintained in order to ensure the long-term performance of the coating system.

CURING, POT LIFE & SHELF LIFE

Dry time @ 21C / 70F ambient air cure. Tack free: 4-6 Hours. Hard Cure: 24 hours. Full Cure: 3-5 days. Elevated Curing 40C - 60C / 105F - 140F for 40 minutes. 3-5 Hours @ 21C / 70F, 1 1/2 Hours @ 32C / 90F; however, these times may vary with environmental or climatic conditions. This material and its components are moisture sensitive. The product should be kept covered at all times after mixing and during application to prevent contamination and prevent moisture absorption. SMP-200 must be used within 6 months from date of purchase - the product is not usable thereafter.

STORAGE & HANDLING:

Hazardous Goods: UN1263, Paint, Class III, PG II, Hazchem 3YE. Shipping Information: Approximate 6.76 kg/14.9 lbs. per gallon unit including container. VOC content: 100 grams per liter. Must be stored and handled in compliance with all current local regulations for flammable liquids. Store in cool, dry, well ventilated (5C-35C / 40F-95F) areas, out of direct sunlight and moisture.

DISCLAIMER:

The information provided is to be used as a guide and users should perform their own tests to ensure performance in their application. All data, statements, and recommendations made herein are based upon information we believe to be reliable, but are made without any representation, guarantee or warranty of accuracy. All statements, technical information and recommendations contained herein are based on tests SEI Chemical believes to be reliable, but the accuracy or completeness thereof is not guaranteed. SEI Chemical warrants SEI products will be free from defects when shipped to customer. SEI Chemical's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify SEI Chemical of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer. SEI Chemical shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of SEI Chemical. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose in no case shall SEI Chemical be liable for incidental or consequential damages. Limited warranty, for industrial use only. Keep out of reach of children, keep containers tightly closed, not for internal consumption, consult material. Consult Material Safety Data Sheet for more information.