Description

ArmorThane SureGrip is a fast set, rapid curing, 100% solids, flexible, aromatic, two component spray polyurea that can be applied to suitably prepared concrete and metal surfaces. Its extremely fast gel time makes it suitable for applications down to -20°F (-29°C). It may be applied in single or multiple applications without appreciable sagging and is relatively insensitive to moisture and temperature, allowing application in most temperatures.

Typical Physical Properties

- Mix Ratio by Volume: 1A:1B
- Tack Free Time: 60-120 seconds
- Flash Point: >200°F (93°C)
- Tensile, ASTM D-412: 3000 ± 200 psi
- Tear, ASTM D-412: 450 ± 50 pli
- Water Vapor Permeability, ASTM E-96: 0.00042 gm/hr in²
- Recommended Applied Thickness: > 2 mm
- Return to Service, Foot Traffic: 4-8 hours
- Impact Resistance @ 77°F (25°C): >200 lbs.
- Horizontal Burn Test, MVSS 302: Does not ignite
- Steel (751-1000-micron blast profile): > 900 psi
- Taber Abrasion Resistance, ASTM D-4060 (CS17 wheel, 1000 cycles, 1 kg load) (maximum): 28.1 mg loss
- Concrete (Shot Blast and primed profile), substrate failure occurred: > 500 psi

*Please note different spray equipment and parameters will affect physical properties. User should perform their own independent testing as properties are approximate.

Mixing

Mix ratio is 1 Side A to 1 Side B of ArmorThane SureGrip. Thoroughly mix the SureGrip Side B (Polyol resin) with air driven power equipment until a homogenous mixture and color is obtained, typically 1 minute per gallon.

Application Process

Coverage: ArmorThane SureGrip may be applied at any rate to achieve desired thickness.

Surface Preparation: In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion, and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. ArmorThane recognizes the potential for unique substrates from one project to another. Refer to the technical bulletins in the ArmorThane Operations Manual concerning the preparation method for the substrate.
Application: Both SureGrip Side A and Side B should be preconditioned to 70-80°F (21-27°C) before application. Recommended surface temperature must be at least 5°F above the dew point.

ArmorThane SureGrip should be applied using HighLine spray equipment. Both Side A and Side B materials should be sprayed at a minimum of 2800 psi and at temperatures above 150°F (66°C). Adequate pressure and temperature should be maintained at all times. SureGrip should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

Packaging

Color: Clear/neutral. Due to its aromatic composition, ArmorThane SureGrip will tend to yellow or darken in color and will become flat after exposure to UV light. SureGrip may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

100-gallon kit: 50 gallons Side A (ISO side) and 50 gallons Side B (resin side)

Safety and Handling

Do not handle until the Safety Data Sheets (SDS) for each component have been read and understood. Regulations require that all employees be trained on Safety Data Sheets for all chemicals with which they come into contact.

Storage: ArmorThane SureGrip has a shelf life of six months from date of manufacture, in factory-sealed containers. Side A and Side B drums are recommended to be stored above 60°F (16°C). Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Side A and Side B drums regularly.

Limitations: Do not open until ready to use. Both Side A and Side B containers must be fitted with a desiccant device during use.

Warning: This product contains isocyanates and curative material.

Typical Uses

Airports
Fertilizer Plants
Food Processing Plants
Secondary Containment
Water and Waste Water Treatment
Power Plants
Warehouse Floors
Landfill Containment
Parking Garage Decks

Refineries
Mining Operations
Marine Environments
Walkways and Balconies
Industrial and Manufacturing Facilities
Structural Steel
Cold Storage Facilities
Paper and Pulp Mills
Blast Mitigation
Features

✓ Excellent Thermal Stability  
✓ Meets USDA Criteria  
✓ Low Temperature Flexibility  
✓ Excellent Color Retention  
✓ Zero VOC  
✓ 100% Solids  
✓ Non-Reactive  
✓ No Toxic Vapors  
✓ Seamless  
✓ Good Chemical Resistance  
✓ Coats Most Metals without Primer  
✓ Odorless  
✓ Low Permeance Rate  
✓ Installed with or without Reinforcement in Transitional Areas

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