AV-200 Primer

Two-Component Urethane Primer

Description

AV-200 Primer is a high performance, two-component urethane primer system designed to increase adhesion of AV-200 Dura-Set to concrete or wood surfaces. By mixing in a 1:1 ratio by volume, bubble-free films can be produced up to 50 mil (1.3 mm) thick. It also exhibits a low sensitivity to substrate moisture, leaving a minimal bubbling when applied to damp surfaces. Contains no VOCs.

General Uses

- Concrete and wood primer for polyurethane and polyurea spray coatings.
- Industrial flooring, roofing, decking, truck bed liners, pipeline and tank coatings.

Advantages

- Penetrates and seals the surface, leaving a smooth, pinhole and bubble-free coating.
- Excellent adhesion to a variety of substrates.
- Good physical properties.
- Outstanding stability at low temperatures.

Versatility

- Primer may be applied on damp surfaces with no bubbles or foaming.
- Flexibility to adjust the cure profile to match customer processes with the adjustment of catalyst.
- Approximately 4-5 hours to apply before it dries.

Viscosity

45 cps @ 77°F (25°C)

Ratio

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

Packaging

1-Quart

Shipping

Motor Class 85
Hazard Class: Non-Hazardous
Contains no VOCs

Air Freight available

Properties: Uncured

Appearance: Clear amber gloss
Viscosity (A/B Mixed): 45 cps
Flash Point: Part A >390°F / Part B >500°F
Theoretical DFT Coverage (per mil*): 1500 ft^2/gal
Recommended DFT Thickness**: 3-5 mil
Pot Life @ 25°C: 4-5 hours
Drying Time***
Tact Free: 4 hours
Re-Coat Time: 2 hours (min) / 24 hours (max)

* Cover rate is estimated based upon composition and takes no allowance for material loss during application. Actual coverage may vary depending on applicator and surface porosity and texture.
** Optimal DFT thickness will depend on condition and surface of the substrate.
*** Drying time is listed at 75°F and 50% relative humidity. Drying time will vary with surface temperature, air circulation, humidity and film thickness.

Properties: Cured

Tensile Strength: 2400 psi
Elongation: 45%
Modulus (100%): 47,900 psi
Tear Strength: 200 psi
Polyurea Top Coat Adhesion: >500 psi
Toxicity: Non-Toxic

Surface Preparation

Surface must be properly prepared prior to application. This could entail scrubbing, high pressure detergent washing, steam cleaning or solvent wiping of the surface to remove dirt, oil, grease, pollutants and other contaminants. Allow the surface to thoroughly dry. Once dry, remove loose or excess mortar or other material that may work to impair adhesion.

Mix Ratio & Procedure

To prepare the system for application, mix the appropriate volume of materials together for approximately 2 minutes. At this point, a cloudy liquid will result which will eventually become clear and amber. Shortly thereafter, a slight exothermic will become noticeable and the mixture will increase in viscosity. The actual working time will depend on the temperature resin blend.

Material can be applied by brush, roller or low pressure spray equipment. Ensure product is applied in an even and uniform manner, making sure recesses and edges are thoroughly coated.

Once dry (or tacky to the touch), the AV-200 Dura-Set is ready to apply.

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Storage

The reaction of isocyanates with water leads to the formation of insoluble ureas and CO_2 gas which can result in pressure buildup inside closed containers. Therefore, extreme care must be taken to assure containers used for AV-200 Primer are dry. Freshly manufactured, Component A is a brown liquid. Sedimentation is usually due to contamination from atmospheric moisture or to dimmer formation. The latter may occur on products with long storage times, typically over one year. Reaction from atmospheric moisture can be prevented by storing Primer in carefully sealed containers under a dry nitrogen atmosphere. During handling, Primer must also be protected from atmospheric moisture and water ingress, and containers must be carefully resealed after each sampling. Containers that have been contaminated with moisture should not be subsequently sealed; otherwise, a hazardous increase in pressure may result. AV-200 Primer is resistant to short-term exposure to low temperatures. However, low temperatures will result in increased viscosity, which makes handling more difficult. It is not advisable to store AV-200 Primer for long periods below 32º F (0ºC). **The recommended storage temperature for AV-200 Primer is 60-95ºF (16-35ºC).** A small amount of finely divided insoluble solid in the liquid product does not usually cause difficulties in handling or product performance. However, if necessary, the liquid product may be filtered through a suitable in-line filter. It is suggested that the filter vessel be of stainless steel with a suitable polypropylene filter bag. The lines should be heated and brown clear with nitrogen after use.

MSDS

Available by request, or download at www.avantigrout.com.

Safety

Take measures not to raise dust, mist and vapor. Wear protective clothing and respiratory protection. After leaving area, decontaminate all clothing. Wash hands and exposed skin areas thoroughly. Empty containers contain residue; observe all precautions and warnings listed for the product. Clean up the work area if contaminated.

First Aid

Part A
Eyes: Flush with plenty of water for at least 15 minutes. Consult a physician.
Skin: Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing before reusing. For severe exposure, get under safety shower after removing clothing, and then get medical attention. For lesser exposures, seek medical attention if irritation develops or persist after the area is washed.
Inhalation: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration if needed. Obtain medical attention. Asthmatic-type symptoms may develop and may be immediate or delayed up to several hours. Consult a physician if this should occur.
Ingestion: **Do not** induce vomiting. Give 1-2 cups of milk or water to drink. Do not give anything by mouth to an unconscious person. Consult a physician.

Part B
Eyes: Flush eyes gently with water. Seek medical attention if irritation persists.
Skin: Wash affected skin with soap and water. Seek medical attention if irritation persists.
Inhalation: In case of exposure to vapors or aerosol, move to fresh air. If breathing is difficult, seek medical attention.
Ingestion: Immediately drink water to dilute. **Induce vomiting**. Consult a physician. Do not give anything by mouth to an unconscious person.

Note to Physician:
Eyes: Stain for evidence of corneal injury. If cornea is burned, install antibiotic steroid preparation frequently. Work place vapors have produced reversible corneal
Skin: This compound is known as a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn.
Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound.
Respiratory: This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having skin or pulmonary sensitization reaction

Notice

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