

PRODUCT DESCRIPTION

SSS300F is a two component 100% solids epoxy seal coat that can be used either as a coating or filled with paint chips, marble chips and colored sand mixtures to provide an infinite array of color schemes or patterns. It is intended to be used in colder environments or when faster set times are desired.

RECOMMENDED FOR

Recommended for warehouses, kitchens, restrooms, and other areas where either a high build clear product is needed or faster cure times are needed.

PHYSICAL PROPERTIES

Solids by weight	100%
Solids by volume	100%
Volatile Organic Content	Less than 2 g/l
Standard Colors	Clear – gardner color 1-2
Recommended film thickness	16-18 mils
Coverage per gallon	90-100 square feet per gallon @ 16-18 mils
Packaging Information	3 gallon kits (2.97 gallons net approximately) 15 gallon kits (14.85 gallons net approximately)
Mix ratio	9.0 pounds part A (.99 gallons) to 4.10 pounds part B (.495 gallons) (volumes approx.)
Shelf life	1 year in unopened containers
Finish Characteristics	Gloss (60 to 100 @ 60 degrees
Abrasion resistance	Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 35 mg loss
Flexural strength	10,850 psi @ ASTM D790
Compressive strength	11,650 psi @ ASTM D695
Adhesion	350 psi @ elcometer (concrete failure, no delamination)
Viscosity	Mixed = 900-1300 cps (typical)
DOT classifications	Part A "not regulated" Part B "CORROSIVE LIQUID N.O.S., 8, UN11760, PGIII"
Tensile strength	7,900 psi @ ASTM D638
Ultimate elongation	4.1%
Gardner Variable Impactor	50 inch pounds direct – passed
Hardness	Shore D = >81

CURE SCHEDULE

Pot life – 1 1/2 gallon volume	5-8 minutes @ 70° F
Tack free (dry to touch)	3-5 hours @ 70° F
Recoat or topcoat	5-7 hours @ 70°F
Light foot traffic	10-14 hours @ 70°F
Full cure (heavy traffic)	2-7 days @ 70°F

APPLICATION TEMPERATURE

55-90 degrees F

CHEMICAL RESISTANCE

REAGENT	RATING
Butanol	C
Xylene	C
1, 1, 1 Trichloroethane	B
MEK	A
Methanol	A
Ethyl alcohol	C
Skydrol	A
10% Sodium Hydroxide	E
50% Sodium Hydroxide	D
10% Sulfuric Acid	C
70% Sulfuric Acid	A
10% HC1 (aq)	C
5% Acetic Acid	A

Rating Key:

- A - not recommended
- B - 2 hour term splash spill
- C - 8 hour term splash spill
- D - 72 hour immersion
- E - long term immersion

NOTE: extensive chemical resistance information is available through your sales representative.

PRIMER

Recommended SSS400 water based epoxy if needed.

TOP COAT

Optional – SSS500 aliphatic urethanes.

LIMITATIONS

*Color stability or gloss may be affected by environmental conditions such as high humidity, chemical and UV exposure or exposure to lighting such as sodium vapor.
*Colors may vary from batch to batch. Use only product from the same batch for job

*This product is not UV color stable. Clear aliphatic urethane topcoats reduce (UV light) color changes.

*Substrate temperature must be 5°F above dew point.

*For best results, apply with a 1/4" nap roller.

*All new concrete must be cured for at least 30 days prior to application.

*Apply a suitable primer before using this product

*This product has a very short pot life. Mix only an amount that can be used in the prescribed time. Improper mixing may result in product failure.

*See reverse side for application instructions.

*Physical properties are typical values and not specifications. *See reverse side for limitations of our liability and warranty.

MIXING AND APPLICATION INSTRUCTIONS (SSS300F)

1. PRODUCT STORAGE

Store product at normal room temperature before using. Continuous storage should be between 60 and 900 F. Low temperatures or temperature fluctuations may cause crystallization.

2. SURFACE PREPARATION

The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

3. PRODUCT MIXING

This product has a mix ratio of 9.0# part A to 4.10# part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed. CAUTION: This product has a short pot life. Mix only an amount that can be used in a five to ten minutes. Immediately after mixing, it is best to spread the material out over the area to be coated. This will increase the time you have to work with the product.

4. PRIMING

A suitable primer should be used before applying this product. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

5. PRODUCT APPLICATION

The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. This product can be used with various colored sand in a broadcast system or other suitable aggregate can be used in conjunction with this product to achieve a variety of color and application patterns. When using as a broadcast binder, always evaluate performance parameters with a test area which is dependent on aggregate size and thickness, prior to application. Contact your representative for details as necessary. CAUTION: This product has a short pot life. Be prepared to work in a fast and organized manner.

6. RECOAT OR TOPCOATING

If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. Many epoxy coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

7. CLEANUP

Use xylol.

8. FLOOR CLEANING

Some cleaners may affect the color. Test each cleaner in a small area. If no ill effects are noted, you may continue to clean with the product tested.

9. RESTRICTIONS

Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.