

SS Water Based 40 Pigmented Epoxy

Technical Data Sheet (12/28/16)

TWO-COMPONENT PIGMENTED EPOXY COATING FOR CONCRETE



PRODUCT DESCRIPTION

SS Water Based 40 Pigmented Epoxy is a new-generation, low-VOC, pigmented epoxy coating, which exhibits exceptional properties previously unavailable with waterborne products. SS Water Based 40 Pigmented Epoxy meets the performance standards, including chemical, abrasion and impact resistance of traditional heavy-duty industrial epoxy floor coatings.

SS Water Based 40 Pigmented Epoxy will perform in areas where heavy-duty industrial floor coatings could not previously be used. Extremely low odor, SS Water Based 40 Pigmented Epoxy can usually be installed during work hours. It can be installed over damp concrete or over porous concrete. SS Water Based 40 Pigmented Epoxy virtually eliminates pinholes caused by concrete gassing. It is highly resistant to hydrostatic delamination. SS Water Based 40 Pigmented Epoxy has a lustrous satin finish but is more slip resistant than high-gloss finishes.

BENEFITS AND FEATURES

- Heavy-duty epoxy, waterborne & no latex
- May be used below grade
- Virtually odorless
- Exceptional bond to concrete
- Breathable
- Excellent chemical, abrasion & impact resistance
- Brightens work areas

RECOMMENDED APPLICATIONS

Use SS Water Based 40 Pigmented Epoxy wherever a durable, easy-to-clean, chemical resistant and abrasion resistant floor finish is required. Due to its unique formulation, it is particularly well suited for floors on grade or below grade where moisture vapor emission is less than 10 lbs./1000 square feet per 24 hours. Coating should not exceed 20 wet mils in two coats in these areas.

SS Water Based 40 Pigmented Epoxy coating can also be used as receiving coat for random and full flake broadcast systems or have slip-resistant aggregate incorporated for wet environments. Excellent for warehouses, manufacturing areas, machine shops, automotive repair facilities, hangars and garages where moisture vapor emission is a concern.

COLOR SELECTION

SS Water Based 40 Pigmented Epoxy is available in two colors: Gray and Mocha.

TECHNICAL INFORMATION

Percent Solids, all colors	50–55%
Wet Film Thickness	8–12 mils
Pot Life 75°F & 50% RH	2 hours
Recoat Time, 75°F & 50% RH	7 hours
Components	2
Mix Ratio	1 Part A: 3 Parts B
Bond Strength (ASTM D-4541)	>300 psi
Hardness (ASTM D-2240)	76 (Shore D)
Indentation (Mil-D-3134F)	No chipping or cracking
Elongation (ASTM D-638)	4.3%
VOC, Mixed	84 gram/liter
Pot Life (75°F, 55% R.H.)	2 hours
Dry Time—Recoat (75°F @ 55% R.H.)	7 hours
Dry Time—Full Cure (50% R.H. @ 75°F)	7 days
Application temperature	70–90°F

CHEMICAL RESISTANCE

Unlike conventional waterborne or emulsion epoxies, SS Water Based 40 Pigmented Epoxy contains no latex. It is far more resistant to most common industrial chemicals, solvents, impact and abrasion than conventional waterborne epoxies. An abbreviated list of chemical resistance and physical properties follows.

REGENT	30 MINUTES	24 HOURS	7 DAYS
Acetone	N	N	F
Acetic Acid (50%)	N	N	N
Ammonium Hydroxide (28%)	N	N	N
Bleach	N	N	D
Ethylene Glycol	N	N	N
Gasoline	N	N	N
Isopropyl Alcohol	N	N	N
Mineral Spirits	N	N	N
Nitric Acid (10%)	N	D	D
Nitric Acid (35%)	D	D	D
Phosphoric Acid (50%)	D	D	D
Skydrol #500	N	N	N
Sulfuric Acid (10%)	N	N	D
Sulfuric Acid (45%)	N	N	D
Sodium Hydroxide (30%)	N	N	D
Toluene	N	N	F

N= NO ATTACK

D=DISCOLORED

F=FAILED

APPROXIMATE COVERAGE RATES

200–250 sq. ft. per gallon (Primer/Base Coat)

200–250 sq. ft. per gallon (Epoxy Finish Coat)

NOTE: Consumption rate of primer may be dramatically affected by porosity of substrate.

POT LIFE

Maximum 2 hours in an open container at 75°F. Always re-mix if material has been unused for more than 30 minutes.

INSTRUCTION FOR USE

SURFACE PREPARATION: The performance of any floor coating is highly reliant upon proper preparation of the substrate. Substrate must be free of all contamination such as laitance, curing compounds, dirt, oil and grease. Preferred surface texture is similar to 100-grit sandpaper.

Caution: Make certain all personnel have read and fully understood all safety precautions on product labels and Safety Data Sheet (SDS).

PRIMING: SS Water Based 40 Pigmented Epoxy is normally roller applied with a 3/8" nap shed resistant roller at a rate of 200 square feet per mixed gallon per coat. Two coats are recommended for uniform pigmented finish. SS Water Based 40 Pigmented Epoxy can be top coated with SS Specialties urethane coatings.

Under standard conditions (75°F, 55% RH), SS Water Based 40 Pigmented Epoxy has a pot life of 2 hours with a recoat time of 7 hours. (Contact SS Specialties at 866-906-2006 for assistance regarding previously coated substrates, thickness, preparation, and application methods).

MIXING: SS Water Based 40 Pigmented Epoxy is shipped in pre-measured kits. Mix Part A and Part B thoroughly before blending together. Pour Part A into Part B and thoroughly mix. Mix with a Jiffy Mixer and a low-speed drill (max. 650 rpm) for a minimum of 2 minutes. (If less than full kits are to be used, you may mix 1 part A to 3 parts B by volume.)

PRIMER APPLICATION: Pour mixture into a painters tray and slowly apply with a 3/8" nap roller (squeegee application is not recommended) to an even and smooth consistency at 6–8 mils WFT (200–250 sq. ft. per gallon). A standard 1 gallon mix should cover approximately 250–200 sq. ft., but this will vary, depending upon the texture of the concrete.

CURE TIME: Average tack free time is 6 to 8 hours. Allow to become tack free before beginning finish coat, approximately 6–8 hours at 75°F.

FINISH COAT APPLICATION: When SS Water Based 40 Pigmented Epoxy primer/base coat is no longer tacky, approximately 6–8 hours at 75°F, repeat application steps as in Primer Application. Coverage of finish coat will also be approximately 250–200 sq. ft. per gallon mix.

OPTIONAL FOR SLIP RESISTANCE: *Add to final coat only.* After mixing Part A and Part B, add 4 ounces of SS Get-A-Grip per mixed gallon of SS Water Based 40 Pigmented Epoxy and mix thoroughly. Pour into paint tray and roll out. SS Get-A-Grip will settle in the pail if not applied immediately. Remix to suspend SS Get-A-Grip before pouring more material into the paint tray.

CAUTION: If primer/base coat has cured over 48 hours before additional coats can be applied, the base coat should be lightly sanded with a medium grit sanding pad and then vacuumed or swept to remove all dust and debris. Do not apply at temperatures below 65°F or above 95°F and above 80% relative humidity or when temperatures will fall below 50°F in a 12-hour period after application. KEEP FROM FREEZING. Material temperature prior to use should be above 68°F for ease of application.

CLEAN UP

Uncured SS Water Based 40 Pigmented Epoxy can be cleaned from tools using hot, soapy water. After material starts to set, use mineral spirits or xylene for cleanup.

RETURN TO SERVICE

Normally allow new floor to cure a minimum of 24 hours @ 75°F before returning floor to light duty service and 36 hours @ 75°F before returning floor to full service. Cooler temperatures and high humidity will cause longer cure time. Be certain that the floor is hard and tack free before returning to full service.

PRODUCT REMOVAL

Dried, cured epoxy may be removed by chemical means or sanding, shot blasting, etc.

PACKAGING

SS Water Based 40 Pigmented Epoxy is packaged in 1 gallon kits.

PRECAUTIONS AND LIMITATIONS

- Do not install on wet (standing water) floors. Surface should be dry to the touch.
- Do not install in areas receiving direct sunlight or where floor will be affected by drafts during curing process.
- Avoid use where ambient operating temperatures exceed 170°F, or application temperatures are below 65°F or above 90°F and above 80% relative humidity.
- Material temperature should be above 68°F for best workability.
- SS Water Based 40 Pigmented Epoxy is not designed to be used as a moisture mitigation system or topcoated with 100% solid epoxy. It should only be topcoated if desired with SS Specialties urethane coatings.
- SS Water Based 40 Pigmented Epoxy is compliant with national, state and local air quality standards; but as standards change, be sure to consult your state's specific requirements before use.
- The statements made within this technical data sheet, SDS, product labels, etc are guidelines only. The end user should always perform tests and product evaluations prior to application to ensure suitability for particular uses.

SPECIAL NOTES

Please consult Safety Data Sheet (SDS) and read Warranty information prior to use. This information can be requested by contacting customer service at 866-906-2006.

WARRANTY:

SS Specialties and its affiliates warrant our products to be of good quality, free of defects and will conform to our published specification in force on the date of acceptance of the order. As the exclusive remedy for breach of this warranty, SS Specialties will replace defective materials ninety days after SS Specialties has shipped the product. All our warranty and other duties with respect to the quality of materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates, and no action for breach of any said duties may thereafter be commenced. No warranty is expressed or implied as to the length of life of this product or merchantability or fitness. Liability, if any, is limited to the purchase price of the material. Under no circumstances will SS Specialties be liable for any consequential damages in excess of the purchase price of the product.

