

SS Water Based 40 Epoxy

Technical Data Sheet (02/09/17)

TWO-COMPONENT EPOXY COATING FOR CONCRETE



PRODUCT DESCRIPTION

SS Specialties Water Based 40 Epoxy is a low VOC clear epoxy sealer that offers exceptional properties previously unavailable with waterborne products. SS Water Based 40 Epoxy is an alternative to acrylic finishes for better wear and chemical resistance over concrete stain or colored concrete.

SS Water Based 40 Epoxy is ideal for dust-proofing concrete and protecting concrete from oil, grease, and automotive fluids. It is highly resistant to hydrostatic delamination. Because of this product's extremely low odor, it can usually be installed during work hours. SS Specialties Seal-Grip or Get-A-Grip can easily be added as a slip resistant additive. SS Specialties Water Based 40 Epoxy is also used as a primer for SS Specialties waterborne and solvent base urethanes.

BENEFITS AND FEATURES

- Dust-proofs concrete
- Resistant to automotive fluids
- Virtually odorless
- Exceptional bond to concrete
- Breathable
- Reduces cost of floor maintenance

RECOMMENDED APPLICATIONS

Use SS Water Based 40 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.

Excellent for warehouses, manufacturing areas, machine shops, automotive repair facilities, hangars and garages where moisture vapor emission is a concern.

TECHNICAL INFORMATION

Percent Solids	46%
Percent Solids, Thinned	39%
Wet Film Thickness.....	5–6 mils
Pot Life (75°F & 50% RH).....	1 hours
Recoat Time (75°F & 50% RH).....	7 hours
Components	2
Mix Ratio.....	1 Part A: 3 Part B
Bond Strength (ASTM D-4541)	>300 psi
Hardness (ASTM D-2240).....	76 (Shore D)
VOC, Mixed	95 gram/liter
Application temperature.....	65–95°F

APPROXIMATE COVERAGE RATES

300–400 sq. ft. per mixed gallon

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

INSTRUCTIONS 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, debris, concrete sealers, loose paint, oil and grease. Even new concrete must be cleaned properly to assure adhesion. Preferred surface texture is similar to 100–grit sandpaper.

Step 1. Scrape, sand or grind off any surface debris such as plaster, putty, grease, oily dirt, sealers or paint spills. Surface should be smooth and even.

Step 2. Rinse surface with water to remove all loose dirt and debris. Remove dirty water from area with broom or squeegee.

Step 3. Thoroughly clean and degrease area using SS Surf Prep. Allow SS Surf Prep to soak for 15 minutes. Vigorously scrub entire area with stiff bristle broom or brush, giving special attention to any oil or grease spots.

Step 4. Rinse entire area thoroughly with running water to remove all residual cleaner/degreaser, oil and grease. Remove all excess water with broom or squeegee. (NOTE: Any residue, such as a white powdery substance is an indication that more rinsing and/or scrubbing is required).

Step 5. Testing to see if concrete floor has clear sealer, hardener or other contamination: Dampen the concrete in one of the corners, 4" x 4" spot. Apply a small amount of SS Surf Prep. If SS Surf Prep causes an instant fizz on the surface, the concrete is suitable to proceed. If the SS Surf Prep does not fizz instantly, the concrete floor has a sealer, hardener or other contaminant that must be removed with chemical strippers, sanding, or diamond grinding. Removing sealers, hardener or paint may require a professional; contact us at 866-906-2006 for assistance.

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

MIXING: SS Water Based 40 Epoxy is a two-component epoxy. It requires thorough mixing for material to harden properly. Thinning is required for proper application. Mixing can also be accomplished using a low speed electric drill (<650 rpm) with a Jiffy paddle/mixer. High speed mixing can cause air bubbles and pin holes in the finished floor.

Step 1. Open the Part A container and mix to a smooth, even consistency.

Step 2. Open the Part B container and mix until uniform and the liquid is smooth and consistent.

Step 3. Pour Part A into Part B. Mix for at least three minutes.

Step 4. Add 20% water to mixed A and B. Mix till thoroughly blended.

Improperly mixed SS Water Based 40 Epoxy may not harden and will not perform properly. If you will not be using the entire unit for the first coat, mix ratio by volume: 1 Part A to 3 Parts B and 20% water by volume.

The SS Water Based 40 Epoxy will turn white when mixed. Once applied the product will turn clear as it cures.

APPLICATION: SS Water Based 40 Epoxy is as easy to apply as paint. However, as a two-component epoxy material, it can begin to thicken and harden in the pail as soon as one hours after mixing.

Step 1. Cut in the perimeter of the area being coated with a 2" brush.

Step 2. Pour SS Water Based 40 Epoxy into a standard paint tray, or if working

from a 5 gallon bucket, use with a roller grid. Apply the coating with a sturdy, long handled, roller frame and a 3/8" napped, non-shedding roller cover. Keep coating even and consistent. Apply coating in a common direction.

NOTE: If a second coat is required, it can be applied as soon as the first coat is dry to the touch. This should occur in approximately seven hours at 75°F and 50% humidity. If additional coats are to be applied after 48 hours curing, a light sanding of the original coat is suggested to ensure adhesion of subsequent coats. Surface must be free of contaminants before re-coating.

OPTIONAL FOR SLIP RESISTANCE: *Add to final coat only*—After mixing Part A and Part B, add SS Seal Grip or SS Get-A-Grip(per instructions) to mixed material of SS Water Based 40 Epoxy and mix thoroughly. Pour into paint tray and roll out. Nonslip will settle in the pail if not applied immediately. Remix to suspend nonslip before pouring more material into the paint tray. We recommend a sample be applied of the slip resistant aggregate with the SS Water Based 40 Epoxy prior to installation for acceptance of texture and appearance by the owner.

CURE TIME FOR RE-COAT: SS Water Based 40 Epoxy can be dry to the touch in as soon as seven hours under ideal weather conditions, 75°F and 50% humidity. However, we recommend waiting at least 16 hours before walking on the surface to re-coat. Caution: Extreme weather conditions such as high humidity and cold temperature can slow the drying process. If SS Water Based 40 Epoxy is not "rock hard" after 72 hours, apply external heat and air movement. If necessary, call 866-906-2006 for professional assistance.

CLEAN UP

While wet, mixture can be cleaned using hot soapy water. Dish washing detergent is recommended. Fully dried SS Water Based 40 Epoxy can only be removed by mechanical means such as sanding or grinding. Leftover mixed SS Water Based 40 Epoxy will fully harden and can be discarded according to your local area regulations.

RETURN TO SERVICE

Normally allow new floor to cure a minimum of 24 hours @ 75°F before returning floor to light duty service, 36 hours @ 75°F before returning floor to full service, and 72 hours before driving or parking vehicles on the surface. 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.

FLOOR MAINTENANCE

SS Water Based 40 Epoxy surface is very easy to clean. All that is normally required is household detergent and running water.

PACKAGING

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

STORAGE

For best shelf life, store SS Water Based 40 Epoxy in a dry area at temperatures between 60°F and 90°F. Protect products from freezing. Minimum shelf life is one year from date of manufacture when properly stored.

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. Best performance is achieved when installing SS Water Based 40 Epoxy at temperatures between 65°F and 95°F and under 80% relative humidity.
- Material temperature should be above 70°F for best workability.
- SS Water Based 40 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 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.

