

SS Water Based 60 Urethane



Technical Data Sheet (02/09/17)

TWO-COMPONENT MATTE URETHANE COATING FOR CONCRETE

PRODUCT DESCRIPTION

SS Water Based 60 Matte Urethane is a high solids, matte finish, two-component water based aliphatic polyurethane. SS Water Based 60 Matte Urethane has excellent hardness, abrasion resistance, hot tire resistance, chemical resistance. SS Water Based 60 Matte Urethane is low VOC and low odor with multiple uses.

BENEFITS AND FEATURES

- Low viscosity allows for excellent substrate wetting and penetration.
- Provides superior resistance to many common chemical, solvents and hot tire pick up.
- Excellent abrasion resistance that rivals many solvent based products.
- Matte finish and low odor make this ideal for many interior applications.
- VOC complaint for most areas in the United States and Canada.

RECOMMENDED APPLICATIONS

Use SS Water Based 60 Matte Urethane is effective on many interior applications where a low odor, matte finish, abrasion resistant coating is required.

TECHNICAL INFORMATION

Percent Solids[Federal Spec. TTP-141B]	56%
Abrasion Resistance.....	38 - 40 mg loss
Gloss.....	Matte Finish
Flexibility (1/8" Mandrel)	Pass
Pendulum Hardness, sec. (ASTM D-4336)	175
Water Resistance	Excellent
Density lbs./Ga. [Federal Spec. (TTP-141B)	9.06
VOC.....	100 grams per liter
Mix Ratio (a/b volume)	2 to 1
Pot Life (75°F & 50% RH).....	30-45 minutes
Dry Time-to touch.....	5-6 hours
Recoat Time	10-14 hours
Dry Time-Light Traffic.....	16-20 hours
Dry Time-Heavy Traffic.....	4-7 days
Application temperature.....	50-80°F

CHEMICAL RESISTANCE

Urine	No Effect
Blood	No Effect
Brake Fluid	No Effect
Xylene	No Effect
Gasoline	No Effect
Skydrol B-4.....	No Effect
Ethylene Glyco.....	No Effect
MEK.....	Film Softened
10% Sodium Hydroxide	No Effect
50% Sodium Hydroxide	No Effect
25% Sulfuric Acid	No Effect
25% Acedic Acid	No Effect
20% Nitric Acid.....	No Effect
10% Hydrochloric Acid.....	No Effect

APPROXIMATE COVERAGE RATES

200-300 sq. ft. per mixed gallon @3-4 mils

NOTE: Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

INSTRUCTIONS FOR USE

SURFACE PREPARATION: For a thin film build system (2-3 mils) we suggest either mechanical scarification, acid etching (and the neutralize to 7 PH), or diamond grinding until an appropriate profile is accomplished. To ensure adequate adhesion, the substrate must be primed with an epoxy primer such as our SS-WE40 Epoxy, be free of all dirt, oil, dust, and foreign contaminants and applied within the recommended recoat time of the primer used. Prior to application of the primer a test should be made to determine that the concrete has an acceptable vapor barrier. This can be done by placing a 4' x 4' plastic sheet on the substrate and completely taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show sign of eventual hydrostatic pressure problems that may late cause loss of adhesion. Adhesion test are recommended prior to using.

Substrate and air temperature must be no less than 40 degrees F and not exceed 80 degrees F. If applied outside these limits the sealer may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150 degrees F which can cause extreme bubbling issues.

MIXING: If mixing less than a full kit, mix Part A & Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending the smaller kit to ensure uniform distribution of all ingredients. Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and homogenous. Water based two part systems need to mixed well for adequate cure and a streak free finish.

APPLICATION: Apply the mixed material by brush or roller to primed surface with a 3/8" nap - 3/4" nap shed-resistant roller cover at a rate of 4 - 6 wet mils within the usable pot life time frame as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If continuous outgassing in the concrete is causing bubbles, re-roll the material using a cross rolling method before the material cures to reduce or eliminate air entrapment. If the material becomes thick while applying and sticking to the roller, stop applying and discard the mixed material. At this point it has reached the end of the usable pot life. While applying keep a wet edge to prevent roller marks. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! Remove any excess material in joints or low impressed areas. Puddled areas may not cure adequately and may cause blush or a white haze. If recoating after 24 - 36 hours (temperature depending) a light sanding using a fine sanding screen may be need to ensure adequate inner coat adhesion.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. coverage rates may vary for all coating and substrates depending on porosity, density, texture etc. When applying, do not exceed 400 sq. ft. per gallon. applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. DO NOT USE ON BRICK.

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 60 Matte Urethane 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 60 Matte Urethane prior to installation for acceptance of texture and appearance by the owner.

CURE TIME FOR RE-COAT: SS Water Based 60 Matte Urethane 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 60 Matte Urethane is not “rock hard” after 72 hours, apply external heat and air movement. If necessary, call 866-906-2006 for professional assistance.

CLEAN UP

Use MEK or SS-Acetone. Fully dried SS Water Based 60 Matte Urethane can only be removed by mechanical means such as sanding or grinding. Leftover mixed SS Water Based 60 Matte Urethane will fully harden and can be discarded according to your local, state and federal 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 60 Matte Urethane surface is very easy to clean. All that is normally required is household detergent and running water.

PACKAGING

SS Water Based 60 Matte Urethane is packaged in .75 gallon, 3 gallon and 15 gallon kits.

STORAGE

For best shelf life, store SS Water Based 60 Matte Urethane in a dry area at temperatures between 50°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.
- All new concrete must be cured for at least 28 days.
- Avoid use where ambient operating temperatures exceed 170°F. Best performance is achieved when installing SS Water Based 60 Matte

Urethane 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 60 Matte Urethane is designed to be used as a moisture mitigation system or topcoated with 100% solid epoxy.
- SS Water Based 60 Matte Urethane 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.

