



# Water Based 60 Urethane Matte

**PRODUCT DESCRIPTION:** SS Water Based 60 Urethane is a high solids, low VOC two part Water Based aliphatic polyurethane. SS Water Based 60 Urethane exhibits excellent hardness, abrasion resistance, hot tire resistance, chemical resistance and is ideally suited for high traffic areas both interior and exterior. Available in gloss (G) and matte (M) shine levels.

**BENEFITS/FEATURES**

- Excellent abrasion and wear
- Non-yellowing and UV resistance
- Hot tire resistance
- Low odor

**RECOMMENDED APPLICATIONS:** SS Water Based 60 Urethane (M) is recommended for coating properly prepared concrete or masonry surfaces in commercial, retail, and high traffic areas. Excellent for wall and floor coatings, institutional coatings and heavy duty maintenance coatings.

**TECHNICAL INFORMATION**

Abrasion Resistance .....	38-40 mg loss
<small>(Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)</small>	
Gloss .....	Matte Finish
Flexibility (1/8" Mandrel) .....	Pass
Pendulum Hardness, sec. (ASTM D-4336) .....	175
Water Resistance .....	Excellent
Solids % Weight (Federal Spec. TTP-141B) .....	53%
Density lbs/Ga. (Federal Spec. TTP-141B) .....	9.06
VOC .....	100 grams per liter
Mix Ratio (a/b volume).....	2 to 1
Coverage (2-4 mils dft.) .....	300-400 sq. ft./ga
Pot Life (higher temperatures shorten pot life).....	1-2 hours
Dry Time—Set to Touch (50% R.H. @ 72°F) .....	5-6 hours
Dry Time—Recoat (50% R.H. @ 72°F).....	12 hours
Dry Time—Light Traffic (50% R.H. @ 72°F) .....	18 hours
Dry Time—Full Cure (heavy traffic) (50% R.H. @ 72°F) .....	7 days
Application temperature.....	55-90°F with relative humidity below 75%

**CHEMICAL RESISTANCE**



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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

\*\* A chemical exposure test should always be performed prior to application to ensure satisfactory resistance.

**APPROXIMATE COVERAGE RATES:**

Coverage (2-4 mils dft.) ..... 300-400 sq. ft./ga

\*Coverage rates vary depending upon surface porosity and texture, and application method. Follow directions for best results.

**SHELF LIFE:** SS Water Based 60 Urethane (M) has a shelf life of one year in its original, sealed, unopened container.

**PACKAGING:** SS Water Based 60 Urethane is (M) packaged and stocked in 3 quart, 3 gallon and 15 gallon kits.

**INSTRUCTIONS FOR USE/SURFACE PREPARATION:** For a thin film build system (2-4 mils DFT) we suggest either mechanical scarification, acid etching (and then neutralize to 7 pH), or diamond grinding until an appropriate profile is accomplished. Test the concrete to determine the moisture vapor content of the concrete prior to applying the coating. This can be done by taping down a 2' X 2' plastic sheet on the substrate and observing the amount of condensation after 19-24 hours. The Wagner RapidRH electronic tester kit provides a more accurate reading of the potential issues because it reads the middle of the slab. For interior projects, prime with SS Water Based 40 Epoxy. For exterior projects, dilute the first coat of SS Water Based 60 Urethane (M) with 10% water. If a second application is desired, apply without diluting. Make sure the primer is tack free and the surface is free of all dirt, oil, dust, and foreign contaminants before applying the SS Water Based 60 Urethane (M). Apply SS Water Based 60 Urethane (M) when the SS Water Based 40 primer is tack free and within 24 hours.

**PRODUCT MIXING:** 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. SS Water Based 60 Urethane (M) two part systems need to be mixed well for adequate cure and a streak free finish.

**PRODUCT APPLICATION:** The preferred application method is a HVLP (high volume low pressure) sprayer. Cross rolling over spraying can be helpful. If applying by roller, it's suggested to cross roll using a 1/4" to 3/8" nap lint free roller. Always apply to a surface primed with the SS Water Based 40 Epoxy or SS Water Based 60 Urethane at a rate of 4-6 wet mils. Apply within the usable pot life time frame, as well as the recommended temperature and relative humidity

guidelines listed in the Technical Information section. Re-roll the material using a cross rolling method to reduce any bubbles due to outgassing. 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, cross rolling when necessary. 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 impression areas. Puddled areas may not cure adequately and may cause blush or a white haze. The optimum re-coat time is when the surface is tack free and less than 24 hours. If re-coating after 24-36 hours (temperature depending) a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

**PLEASE NOTE:** Applying SS Water Based 60 Urethane (M) outside of the suggested parameters may result in job 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 coatings and substrates depending on porosity, density, texture etc.

**CLEAN UP:** Use Acetone or MEK. Dispose of containers in accordance with local and federal regulations.

**PRODUCT REMOVAL:** Dried, cured urethane may be removed with a commercial stripper, but recommended removal is by way of mechanical means, including sanding, shot blasting, etc.

**PRECAUTIONS AND LIMITATIONS:**

- All new concrete must be cured for at least 28 days prior to application.
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- Always keep product containers covered to avoid “skinning” over.
- Do not mix more than can be used in a 10 minute period in warm weather (+80°F) and 20 minutes in cool weather (-60°F).
- SS Water Based 60 Urethane (M) should be applied in thin coats. Do not puddle.
- Be aware that this product may be slippery when wet. Anti Slip additives may be needed to reduce surface slip hazards.
- SS Water Based 60 Urethane (M) may darken the surface of many new and existing concrete substrates. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.

\*\*If applying over an existing coating, proper adhesion and compatibility tests are essential. In this application the substrate preparation, application, performance and all other liabilities are strictly the end users responsibility. Cimarron Wholesale offers no guaranty, warranty or other claims to the success or results of the job in this circumstance.

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