

DESCRIPTION:

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

Specifications / Compliances • Dried coating is USDA accepted • Meets OTC, CARB, LADCO & SCAQMD VOC restrictions.

KEY FEATURES & TYPICAL BENEFITS

- Low viscosity allows for excellent substrate wetting and penetration.
- Provides superior resistance to many common chemicals, 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 compliant for most areas in the United States and Canada.

RECOMMENDED APPLICATIONS

Many interior applications where a low odor, matte finish, abrasion resistant coating is required.

APPLICATION INSTRUCTIONS

MOISTURE TESTING: Concrete floors, especially those not poured over a proper vapor barrier (plastic), are subject to possible moisture vapor transmission which may result in bubbling and/or failure of high performance coatings. Basic moisture testing can be performed by placing a 4' x 4' sheet of plastic on the concrete surface and securely taping it down on all edges. If after 24 hours the concrete is still dry below the plastic, the surface should be ready to coat. If moisture is present, the coating applicator should perform calcium chloride and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings.

SURFACE PREPARATION: The concrete surface must be deemed mechanically and structurally sound, thoroughly clean of debris and completely dry. Concrete must be fully cured a minimum of 28 days. It is recommended to prepare the concrete surface by mechanical means such as shot blasting or diamond grinding with 30 grit or coarser diamonds to achieve a CSP-2 to CSP-3 profile. If using in a thin mil system such as acid stain, dye & seal, 2 or less clear coats, etc., an 80 grit diamond may be acceptable to minimize visual scratches in the finish. Vacuum concrete surface several times until dust thoroughly removed. If applying over an existing, fully bonded coating that is outside its recommended re-coat window, the surface should be sanded thoroughly with a 60-120 grit sanding screen until the surface is completely dulled with scratches. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone, and a microfiber dust mop. **CAUTION:** Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks or extreme heat sources are present. Use recommended personal protection for acetone.

Substrate, air and material temperatures must be no less than 50°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Please note that higher substrate, air and material temperatures as well as excessive humidity may speed the cure rate of this product. Cooler temperatures and lower humidity may slow the cure rate of this product.

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, RESPIRATOR AND OTHER NECESSARY PPE. REFER TO SDS PRIOR TO USE!

TINTING: Suggested as a clear top coat only. Tinting is not recommended. Color float and/or inconsistent color profile may leave an undesirable finish.

MIXING: If mixing less than a full kit, mix Part A and Part B separately with a stir stick, low speed mixer or vigorously shake containers prior to measuring out the smaller kit to ensure uniform distribution of all ingredients. In a clean mixing container, blend 2 Parts A and 1 Part B using a drill mixer for 2-3 minutes. Up to 10% clean water may be added AFTER blending Parts A and B to help reduce roller marks, orange peel, etc. Avoid creating a vortex in the material which could introduce air and/or moisture content to the mixture. Do not mix more than can be applied within the usable pot life time frame.

COVERAGE RATE: First Coat - Direct to Concrete : **200 - 300 ft² per gallon***
Second Coat - Over Existing Coating : **250 - 350 ft² per gallon***

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

APPLICATION: Using a brush and/or 3/8" nap shed less roller, dip and roll the mixed material from a roller pan. 18" rollers are recommended for any surface to speed up application time and reduce roller marks. Start by placing the wet roller at one corner of an approximate 4' x 4' square and roll the material at an angle to opposite corner applying no pressure to the roller. Spread the material across only that square and immediately back-roll to even out material and roller lines. Adjust the size of your square as needed based on the amount of material being applied with the roller. After finishing the square, move on to the next square using the same technique. 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. Apply the mixed material within the usable pot life time frame. 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. Do not allow to puddle! Use a brush to remove excess coating in joints. An airless or HVLP sprayer may also be used. ®

RE-COATING: If possible, re-coat within the suggested re-coat window located on page 1. Apply additional coats in the same manner as the first coat. Note that higher substrate, air and material temperatures as well as excessive humidity may greatly reduce the acceptable re-coat window of this product. When working in higher temperatures, always re-coat as early in the re-coat window as possible to avoid failure between coats. If re-coating outside the suggested re-coat window (see page 1) or beyond 24 hours, sand using a 60-120 grit sanding screen to ensure adequate adhesion between coats. Vacuum dust thoroughly, rinse with clean water and remove excess water with a wet/dry vacuum or floor scrubber. Allow surface to dry completely prior to application of coating. Where applicable and with adequate ventilation, wipe the surface with acetone and a microfiber dust mop. CAUTION: Acetone is extremely flammable! If using acetone follow all safety precautions, make sure no pilot lights, open flames, sources of static electricity, sparks, or extreme heat sources are present. Use recommended personal protection for acetone.

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 coatings and substrates depending on porosity, density, texture etc. When applying, adhere to suggested coverage rates. Applying too thin of a coating may cause inadequate film formation, limited performance expectations and/or undesirable finish. Applying too thick may result to bubbling, hazing, etc. **DO NOT USE ON BRICK.**

COF WARNING: OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. The manufacturer recommends the use of slip-resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. The manufacturer nor its sales agents will be responsible for injury incurred in a slip and fall accident.

PRECAUTIONS AND LIMITATIONS

- This product will freeze during storage. Store at temperatures above 40°F.
- All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- This product performs best when applied as one or two medium-light coats, not one heavy coat.
- Please be aware that this product when cured may be slippery when wet. An anti-slip additive can be added to reduce slip hazards.
- All new concrete must be cured for at least 28 days prior to application.
- It is not recommended to thin product. Improper thinning may cause coating to delaminate in a short time frame and other performance issues.
- This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- Physical properties listed on this technical data sheet are typical values not specifications.

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

PRODUCT REMOVAL: Dried, cured coating may be removed with a commercial stripper or by using a diamond grinding method, sandblasting method or similar mechanical action.

SHELF LIFE: Up to one year from manufacture date in its original, unopened container stored at room temperature.

PACKAGING: Available in 1.25 gallon and 2.5 gallon kits.

Always read all technical information, label and SDS prior to use. This information can be found on-line or by calling customer service at the number below.



ResinForce® Waterbase Matte Urethane

Matte Finish Urethane
Two Component Mix Ratio 2(A) : 1(B)

Technical Data Sheet

Jan. 2025 v.01

TYPICAL PROPERTIES & TECHNICAL INFORMATION

PROPERTY	VALUE
Solids/Active Content, Percentage by weight	56%
Pot Life	45 Minutes
Dry Time - Tack Free	5 - 6 Hours
Dry Time - Foot Traffic	16 - 20 Hours
Dry Time - Heavy Traffic	4 - 7 Days
Re-Coat Time Window	10 - 14 Hours
Application Temperature	50°F - 80°F
VOC (Volatile Organic Compound) Content	Less than 100 grams/Liter (Mixed A&B)
Appearance - Dry	Clear and Matte Finish

Information above is based on lab temperatures of 70° - 72°F at 50% RH. Using this product outside these conditions may affect the accuracy of the information above. Always test prior to use!

ALWAYS REFER TO SDS & READ FULL TECH DATA SHEET AND WARRANTY INFORMATION PRIOR TO USE.

EXTENDED TECHNICAL DATA

Abrasion Resistance (ASTM 4060-81)	38 - 40 mg loss
Flexibility, 1/8" Mandrel (ASTM D1737)	Pass
Pendulum Hardness (ASTMD - 4336)	175
Gloss 60°	88
Water Resistance	Excellent

CHEMICAL RESISTANCE

R - Recommended (little to no visible damage)

C - Conditional (wash within one hour of exposure to avoid effects)

RC - Recommended Conditional (some effect swelling or discoloration)

NR - Not Recommended (visible damage will occur)

Urine	R	Water	R
Xylene	R	Sugar / Water	R
MEK	C	Chlorinated Water	R
Isopropyl Alcohol	R	Clorox (10%) Water	R
Methanol	R	Vinegar / Water 5%	R
Gasoline	R	Wine	R
Diesel Fuel	R	Sodium Hydroxide 25%	R
Skydrol	R	Muriatic Acid 10%	R
Motor Oil	R	Sulfuric Acid 10%	R
Transmission Fluid	R	Nitric Acid 10%	NR
Brake Fluid	R	Phosphoric Acid 10%	R
Hydraulic Fluid	R	Hydrochloric Acid 20%	R

Allow 7 - 14 days for product to fully cure to reach full abrasion and chemical resistance properties.

WARRANTY

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of **ResinForce® Products, LLC**. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify the suitability of this information for their own particular use, and to test this product before use. **ResinForce® Products, LLC** assumes no legal responsibility for use upon this data. **ResinForce® Products, LLC** assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.

FOR PROFESSIONAL USE ONLY!

This data sheet provides typical properties for **ResinForce® Products, LLC**. Before using this product, the user is advised and cautioned to make their own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. Please consult our SDS for further safety information.