VELARA™ MATTE WB URETHANE

TECHNICAL DATA SHEET

Velara™ Matte Finish Urethane is a high-performance, water-based urethane topcoat that delivers a smooth, uniform matte finish for interior resinous flooring systems. Its low-sheen appearance provides a clean, contemporary aesthetic while maintaining durability for commercial foot-traffic environments. Velara™ offers a highly refined film, leaving minimal texture / orange peel. Designed as a topcoat for Velara™ BioPolymers systems, it can also be applied over other Resinwerks resinous flooring systems where a durable, seamless matte finish is desired.

USES:

- Educational Facilities
- Retail Showrooms
- Healthcare
- Animal Facilities
- Residential
- Locker Rooms

ADVANTAGES:

- Smooth, self-leveled surface
- Resilient flooring
- UV stable
- Excellent film quality
- Seamless finish
- 0 VOC / Odor

PRODUCT PACKAGING

KIT SIZE	PART A*	PART B	VOLUME
10 lb. kit	9 lbs.	1 lb.	1-Gal

SUGGESTED APPLICATION

- Interior foot traffic environments
- Pan roll with approved Resinwerks 3/16” nap roller.
- Recommended 2 coats

ANCILLARY PRODUCTS:

- Resinwerks Velara Biopolymer Resin
- Matte WB Urethane may be used over a number of other decorative concrete applications, including solid color, flake & quartz broadcast and Simerrazzo™ systems. Please contact your local Resinwerks technical representative for more information.

MATERIAL COVERAGE

STEP	QTY	COVERAGE
Coat 1	1-Gal / 10 lbs.	500 ft^2
Coat 2	1-Gal / 10 lbs.	500 ft^2

- Total Approximate Coverage: 250 ft^2 per kit

GENERAL PRODUCT INFORMATION

Sheen:	Matte
Solids Volume:	42%
V.O.C.:	0 g/L
Pot-life:	25 minutes @ 72° F
Mix-Ratio:	Mix 9 parts A to 1 part B by weight
Cure Schedule:	72° F @ 50% R.H.
	To touch: 3-hours
	To re-coat: 3 hours minimum
	24 hours maximum
	Foot Traffic: 12 Hours
	Heavy Traffic: 48 Hours
	Full Cure: 7 Days
Reducer::	Not Recommended
Substrate Temp:	50°F(10°C) - 85°F(30.0°C)
Humidity :	30-70%
Ambient Temp:	60°F(15°C) - 85°F(30.0°C)
Environment::	For interior Use
Shelf Life:	12 months factory sealed, properly stored

GENERAL PRODUCT PERFORMANCE

TEST TYPE	TEST METHOD	RESULT
Hardness	ASTM D2240 Shore D	50-55
Viscosity	ASTM D2196 or D1084	5,000 mPa·s (5,000 cP), ±500
Gloss Units @ 85°	ASTM D523	25
Flammability	ASTM D 635	Self extinguishing
Coefficient of Friction	ASTM D2047	> 0.6 / pass

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SURFACE PREPARATION:

- **CONCRETE:** Do not apply direct to concrete
- **EXISTING COATINGS**: Velara™ Matte WBU may be applied over existing epoxy, polyaspartic and polyurethane resinous flooring products that are within their specified re-coat window. Existing coatings or coatings outside of the specified re-coat window must be adequately profiled and cleaned as per manufacturer's instructions.
- **TREATMENT OF JOINTS AND CRACKS**: Prior to installation of any Resinwerks primer, all joints, cracks and other substrate irregularities must be addressed. For more information on specific joint treatment procedures, please contact your Resinwerks technical services representative.

MIXING INSTRUCTIONS:

- Prior to mixing, all products should be properly acclimated to the local ambient room temperature of 60°F(15°C) to 85°F(30.0°C)
- Agitate or shake Part A prior to mixing. Mix complete full or partial kits maintaining a mix ratio of 9 Parts A to 1 Part B **by weight**. Mix thoroughly for two minutes using a slow speed jiffy mixer until material is homogeneous.
- **IMPORTANT:** Let stand for a full 10 minutes prior to use.

APPLICATION INSTRUCTIONS

- Apply Matte Finish Urethane at a rate of approximately 500 square feet per kit by pan rolling with a 3/16" nap roller.
- For proper appearance, dip the roller in the coating and lightly roll out excess in the application tray. Take care to spread the material evenly and immediately back-roll in a perpendicular fashion.
- Stage / Mix new material as needed. Fresh batches should be ready just as the previous batch is nearly finished being installed. Account for mixing time in relation to installation pace.
- Recommended application is for 2-coats to ensure a uniform finish.

LIMITATIONS

- Do not apply over Acrylics or MMA Coatings
- Do not apply direct to concrete
- Do not apply product when ambient or room temperature is below 60°F (15°C) or over 85°F(30°C) or if the relative ambient humidity is above 70%.
- This product is not recommended for immersion service.
- Dew Point: Do not apply when dew point is within 5°F of the ambient temperature.

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are dependent on an adequate routine maintenance program designed specifically for the installed wear surface. Resinous floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. Recommended maintenance programs consist of frequent and thorough cleaning utilizing a neutral PH cleaner. The frequency of washing will vary depending on floor usage type, traffic and age. Please contact your local Resinwerks technical representative for more information.

NOTES

Thoroughly read all Safety Data Sheets prior to use and maintain copies on job-site at all times.

Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of Urethane products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects.

Disclaimer: Thoroughly read all Material Safety Data Sheets prior to use and maintain copies on job-site at all times. Mock-ups and field test areas are strongly recommended in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system. Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of coating products may lead to fish-eyes, blistering, pinholes, wrinkling, or out-gassing of air in the concrete and are not product defects. Inhalation of vapor or mist can cause headache, nausea irritation of nose, throat, and lungs. Avoid breathing vapors, it is strongly recommended that respirators are worn. Prolonged or repeated skin contact can cause slight skin irritation. All epoxy and urethane coatings have the potential of causing skin irritations or allergic reactions. Be careful not to get on skin, clothes or in eyes. Gloves are strongly recommended. Resinwerks recommends the use of slip-resistant additives in all coating systems that are subject to heavy foot traffic and especially those within wet or oily environments. It is the end-user's responsibility to provide flooring that meets current safety standards and local coefficient of friction requirements.

TECHNICAL ASSISTANCE

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RESINWERKS™ FLOOR COATING SYSTEMS