Floorguard Products

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ZioTHANE

LOW GLOSS WB URETHANE

PRODUCT OVERVIEW

ZioTHANE Low Gloss is a premium, two-component, water-based aliphatic urethane sealer engineered to deliver a durable, low-sheen finish for resinous coatings. Designed for environments where a subtle, modern aesthetic is preferred, this low gloss formula provides superior abrasion resistance, chemical durability, and UV stability, ensuring long term protection. Its low-odor, environmentally conscious formula makes it suitable for occupied spaces and interior applications. With smooth application, reliable film build, and outstanding wear performance, ZioTHANE Low Gloss is ideal for commercial, industrial, and residential floors that require a durable, easy to clean and low-maintenance finish.

KEY FEATURES

- Low VOC Formulation
- Low Odor
- Eco-Friendly
- Breathable Film
- UV Stability
- Low-Gloss Finish
- Chemical & Impact Resistance
- Excellent Abrasion Resistance
- Excellent Wear Resistance
- Low Maintenance

COLOR OPTIONS

CLEAR

APPLICATION CONSIDERATIONS

- Higher ambient, product, and substrate temps will decrease working time and dry time
- Slab on grade requires moisture barrier
- Do not apply direct to concrete, concrete must be sealed first using ZioTHANE Gloss
- Do not apply heavier than recommended coverage rate

PHYSICAL CHARACTERISTICS

SOLIDS CONTENT	60%
VOC CONTENT	10 g/L
VOLUMETRIC MIX RATIO	2A:1B
VISCOSITY	500-650 cps
POT LIFE 1.5 GAL MASS	60 Minutes @ 70°F
WORKING TIME	25-35 Minutes @ 70°F
TACK FREE	5-7 Hours @ 70°F
RECOAT WINDOW	5-12 Hours @ 75°F
LIGHT FOOT TRAFFIC	24 Hours @ 75°F
FULL CURE	3-5 Days
APPLICATION TEMPERATURE	55°F - 90°F | RH <85%
COVERAGE RATE	350 ft²/gal @ 4.5 Mils WFT
SHELF LIFE UNOPENED	6 Months
PACKAGING	3 Gallon Kit | 15 Gallon Kit

TECHNICAL PROPERTIES

ABRASION RESISTANCE CS-17 WHEEL, 1000G LOAD, 500 CYCLES	ASTM D4060	23 mg loss
ADHESION	ASTM D7234	>320 psi
FLEXIBILITY 1/8" MANDREL	ASTM D1737	Pass
GLOSS INDEX @ 60°	ASTM D112	<20
IMPACT RESISTANCE	ASTM D2794	161 lbs/in

CHEMICAL RESISTANCE

Refer to Floorguard Products Chemical Resistance Chart.

REQUIREMENTS

- The substrate should have a compressive strength of at least 3,500 psi
- The substrate should have a Moisture Vapor Emission Rate (MVER) of less than 3 lbs per ASTM F1869 and a Relative Humidity (RH) below 80% per ASTM F2170. When using a Tramex concrete moisture meter, the moisture content should be under 4%
- The substrate should have a pH level in the range of 6 to 9.
- Concrete must be structurally sound and free of all contaminants and bond breakers.
- Concrete should be mechanically prepared and profiled to achieve a Concrete Surface Profile (CSP) between levels 2 and 4, in accordance with ICRI 310.2R
- Mask all perimeter areas to protect surfaces at coating terminations. Saw-cut and key all termination points as required.
- Ensure all depressions, divots, and cracks are properly profiled, cleaned of dust and contaminants, and repaired to prevent defects from showing through the coating.
- Preserve all dynamic joints, while static joints can be filled. When necessary, use dynamic joints as starting and ending points during the application process.
- Ambient and substrate temps should be above 55°F and a minimum of 5°F above Dew Point.
- Product temps should be between 70-80°F.
- Ambient relative humidity should not exceed 80% during coating application.

PRECAUTIONS

- Refer to Safety Data Sheets (SDS) for safety precautions.
- Safety precautions must be followed during storage, handling, and use.
- Personal Protective Equipment (PPE) shall be worn at all times of the application process including but not limited to long sleeve shirts, safety glasses, nitrile gloves and properly fitted NIOSH respirators.
- All sources of ignition must be turned off, and the area should be properly and adequately ventilated during both the application and curing processes.
- The mixing area should be located on or near the project site and securely covered with plastic, cardboard, or a tarp to protect against drips and spills.
- Stage all materials, tools, and cleaning supplies in a shaded area—out of direct sunlight—within the mixing area before beginning the application process.
- Clean the mixing station and application tools after use with a VOC-exempt solvent. Always follow all legal, health, and safety guidelines when handling or storing solvents and materials, especially when working in confined spaces.
- Dispose of empty packaging and other waste in accordance with all applicable federal, state, provincial, and local regulations.

MIXING PROCEDURE

1. Pre condition product to temperature between 70°-80°F for best results
2. Pre-Mix A-Component in its respective container using Jiffy mixer and drill at slow speeds for 30 seconds until thoroughly homogeneous
3. Pre-Mix B-Component in its respective container using clean Jiffy mixer and drill at slow speeds for 30 seconds or until thoroughly homogeneous.
4. Transfer A-component and B-component at a mix rate of 2A:1B by volume and mix for 2-3 minutes being sure to scrape sides of the bucket ensuring both components are thoroughly blended

- Do not mix at high RPMs or air entrapment may occur
- Do not pull mixing paddle in and out of the mix during process or air entrapment may occur

COVERAGE RATES & WORKING TIMES

- Sealer: 350 Ft² / Gal @ 4.5 Mils WFT

- 40-45 Minute Working Time @ 55°F
- 25-35 Minute Working Time @ 70°F
- 15-20 Minute Working Time @ 88°F

- Surface porosity, temperatures, and application method will cause coverage rate to vary.
- Ambient temps & humidity, product and surface temps, airflow and mix time affect overall working times

APPLICATION PROCEDURE

1. Cut-in edges using a chip brush. Do not allow wet edges to stand more than 5 minutes ahead of application of main body of floor.

- Be mindful of environmental variables and affects on estimated working time

2. Pour mixed material into paint tray and use a 1/4" nap mohair roller to dip and roll material across surface achieving desired thickness.

- Ensure you maintain a wet edge throughout application process
- Follow recommended coverage rates and wet film thickness

3. Back roll the surface wall to wall with 50% overlap. Back roll should be perpendicular to your first pass

- Do not overwork material
- Ensure back roll is always either wall to wall or joint to joint for a consistent finish

4. Allow coating to dry : 7-10 Hours @ 52°F
   5-7 Hours @ 70°F
   3-5 Hours @ 88°F
   - Do not force dry
   - Recoat: 5-12 Hours @ 75°F

- Surface will need to be abraded using 80-100 sanding screen prior to recoat after the 12 hour window
  - Light Traffic: 24 Hours @ 75°F
  - Heavy Traffic: 48 Hours @ 75°F
  - Equipment Traffic: 72 Hours @ 75°F
- Lower temps will further delay traffic time

MAINTENANCE

Inspect the installed floor by spot-cleaning and repairing any damaged or cracked areas as needed. To extend the life of the flooring system, implementing a daily maintenance program is strongly recommended to help ensure the floor remains safe for its intended use.

TECHNICAL SUPPORT

For questions, please contact a Floorguard Products representative. Additional support materials are available from Floorguard Products. Visit floorguardproducts.com or reach out to us directly for further resources.

DISCLAIMER