



TDS

MSD SATIN URETHANE

MSD SATIN URETHANE is a three-component floor finish. This aliphatic urethane exhibits excellent resistance to abrasion, weathering, and chemicals while remaining flexible and UV-stable.

RECOMMENDED USES

Auto service centers
Warehouses
Computer rooms
Laboratories
Aircraft hangars
Cafeterias
Chemical exposure areas.

APPLICATION

Preparation:

All dirt, oil, dust, foreign contaminants, and laitance must be removed to assure a trouble-free bond to the substrate. The epoxy base coat must be thoroughly sanded until the surface is de-glossed, appropriately, and thoroughly scratched. It is recommended that a minimum of 80-grit paper be used.

Mixing:

This product has three components. You should mix part A with part B thoroughly, and then part C should be added and mixed in well to ensure a uniform mixture. If a color pack is used, it is recommended that the color pack be combined with parts A and B before adding the part C aggregate and mixed well. After the three (or four, if color packs are used) parts are combined, mix highly well with slow-speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. Improper mixing may result in product failure. Avoid whipping air into the coating. Once the material is opened, it cannot be re-sealed for later use. The kits come prepackaged, should be used entirely, and should not be broken down.

Application:

Pour the mixed material into the application tray. Apply at the rate of 600 square feet per gallon uniformly with a 3/8" nap roller. The material mustn't be applied thicker than this application rate for a uniform appearance. Dip the roller in the coating and roll out excess fabric in the roller tray before the actual application to the substrate. Overlap subsequent passes being sure no extra material is applied when overlapping. Make sure the floor has just enough material to cover evenly in a thin application.



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Finally, re-roll the area opposite the first pass applications to level and even the application. The final re-rolling for the entire floor should be in the same direction. Remix the material in the application tray to maintain a uniform mix throughout the application process. If the appearance is not satisfactory, re-roll until the area is uniform in appearance. It is almost impossible to over-roll this material. The last step in the application process (wearing spiked shoes) is to pull the roller tool across the entire slab in one direction without applying any pressure and repeat this process by overlapping until the whole slab has been re-rolled. Doing this will help blend in any roller and overlap marks. Maintain temperatures and humidity within the recommended ranges during the application and the curing process. Ensure the substrate has a suitable epoxy primer that has been deglossed (see surface preparation above). It is best to maintain a wet edge to avoid roller marks. Direct sunlight or high temperatures may cause visible roller marking during application. Too thick of an application may result in solvent entrapment and product failure. The surface must be dry before the application of this product.

Cleaning:

Use ketone solvents.

Floor Cleaning:

It is recommended to test various cleaners on small areas to find which works best. Some aggressive floor cleaning chemicals can cause discoloration

Restrictions:

Until the coating has reached full use, avoid heavy traffic, harsh chemicals and exposure to water. Flooring may be slippery when wet; take caution.

SPECIFICATIONS

Solids: Mixed 93% solids by weight
92% solids by volume

VOC: Less than 95 g/l

Product Yield: 600 square feet per gallon

Packaging Information: 1 Gallon Kit

Mix Ratio: 1 A : 1 B : 1 C

Finish: Semi-gloss/eggshell

Shelf Life: 6 months if unopened



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SPECIFICATIONS

Cure Schedule: (70°F)

- Pot Life - 1-2 hours
- Tack Free - 3-6 hours
- Re-Coat - 6-10 hours
- Light Foot Traffic - 14-24 hours
- Full Cure - 3-5 days

Application Temperature: 50-90 degrees F with relative humidity between 50-90%

Storage: Store product at normal room temperature before using. Storage should be between 60 and 90 degree F.

Viscosity: Mixed liquids A/B = 1000-2000 cps (typical)

DOT Classifications:

Part A: "NA1993, COMBUSTIBLE LIQUID N.O.S., 3, PG III"

Part B: "ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., UN3082, 9, PGIII,"

Product Testing Data:

Abrasion Resistance: Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 15-20 mg loss

Impact Resistance: Gardner Impact = 160 in. lb. (passed)

Flexibility: No cracks on a 1/8" mandrel

Adhesion: On a properly prepared epoxy basecoat, the adhesion should exceed 300 psi @ elcometer (concrete failure, no delamination)

Chemical Resistance:

REAGENT	RATING
acetic acid 5%	C
mek	B
gasoline	D
50% sodium hydroxide	D
10% sulfuric	D
10% hydrochloric acid	D
20% nitric acid	C
ethylene glycol	D

Rating Key:
 A - not recommended
 B - 2 hour term splash spill
 C - 8 hour term splash spill
 D - 72 hour immersion
 E - long term immersion