



TDS

MSD GLOSS URETHANE

MSD GLOSS URETHANE is a two-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 hangers
Cafeterias
Chemical exposure areas.

APPLICATION

Preparation:

You must thoroughly clean your surface area to ensure 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:

The kits come prepackaged, should be used entirely, and should not be broken down. This product has two components. Part A should be mixed with part B thoroughly until uniform. If using a color pack, mix the color pack with part A before adding part B. Once the optional color pack is mixed into part A, combine part B. Mix exceptionally well with slow-speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak-free. It is important to mix gently, avoiding blending air into the product. The product may fail if mixing is done incorrectly. The product may not be resealed and saved for later use once it is opened and mixed.

Application:

First, take your mixed product and pour it into an application tray. Using a 3/8" nap roller, apply product at roughly 600 sf per gallon. The material mustn't be applied thicker than this application rate for a uniform appearance. Only apply enough material to provide a thin even coat over your surface. Finally, re-roll the area opposite to the first pass applications to level and even the application.



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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. 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:

Restrict the use of the floor to light traffic, non-harsh chemicals and water until the coating is fully cured. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

SPECIFICATIONS

Solids: Mixed 89% solids by weight
88% solids by volume

VOC: Less than 100 g/l for colors
Less than 106 g/l for clear

Product Yield: 600 square feet per gallon

Packaging Information: 1 Gallon Kit

Mix Ratio: 1 A : 1 B

Finish: Gloss

Shelf Life: 6 months in unopened
containers.

Cure Schedule: (70°F)

Pot Life - 2 hours

Tack Free - 3-6 hours

Re-Coat - 6-10 hours

Light Foot Traffic - 14-24 hours

Full Cure - 3-5 days



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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 = 20-25 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