TOP COAT

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

MESG Top Coat is a two-component, high solids, water-based, polyurethane top coat. This product provides properties equal to traditional urethanes with fewer health and environmental concerns. This product's UV, mar, and chemical resistant nature will cause it to outperform most other types of top coats with a more straightforward application.

THE MESG DIFFERENCE

All Products in our system are industrial/commercial grade, and with proper installation and maintenance, you will achieve higher longevity than the substrate/surface you are working on. We have completely revolutionized and streamlined the entire installation and ordering process(s) with the most comprehensive instructional videos on the market and an online system that builds your order based on your application's square footage.

TYPICAL USES

MESG Top Coat is designed to be a high-strength finish over substrates/surfaces, including but not limited to; concrete floors/counters, wood floors/counters, laminate/Formica, stone/engineered stone, and tile.

COLOR(S)

Comes in clear only.

PACKAGING

- 1.6kg Kit. Part A: 1.2kg, Part B: 0.4kg
- 4kg Kit. Part A: 3kg, Part B: 1kg

MAINTENANCE

Please refer to our website for aftercare methods.

INSPECTION / PREPARATION

INSPECTION

The surface must be dry and free of oil, grease, curing agents, dirt, dust, or other foreign material that may prevent proper adhesion.
The surface must be porous or rough enough to allow the product to soak in and bond properly.

PREPARATION

Prepare the surface by scrubbing, sanding, grinding, water blasting, sandblasting, or shot blasting to achieve a clean, porous, uniform surface, allowing the product to soak in and bond permanently.

Apply directly over the surface as a top coat over Concrete Overlay or MESG Metallic Epoxy. If the texture has been left for more than 24 hours or has become dirty, clean it before applying the Top Coat.

Note: The most common reason for coating failure is lack of preparation. The MESG Top Coat must be applied on top of the MESG Metallic Epoxy within 24 hours. If more than 24 hours have passed, lightly sand the surface with 220 grit and wipe with a solvent such as denatured alcohol before the application.

APPLICATION

Mix and measure out Part A & B at the 3:1 Ratio. If you intend to use our top coat agents, add them before mixing in Part B. When you are ready to begin the application, add Part B to Part A and mix with a drill and paddle for 2-3 minutes before applying it to your section.

Note: Have your project area split into sections and only mix them in batches where you can complete a batch within 15 minutes.

APPLYING PRODUCT

For best results, refer to our tutorial videos and installation guidelines prior to application.

COVERAGE

Epoxy Surfaces: 16m2/kg
Concrete & Other Porous Surfaces: 6.4m2/kg

Please refer to our calculator listed on our website for a more accurate reading of the amount of products you require for your project.

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DRY TIME

MESG Top Coat should be dry to the touch within 6-24 hours, depending on the area's ambient temperature. Regular foot traffic can be permitted when the Top Coat is dry to the touch, typically within 24 hours @70°F (21°C). Vehicle traffic can be allowed after 24 hours. All dry times are based on an average temperature of 70°F (21°C) and 50% humidity.

CLEAN UP

Equipment should be cleaned with water immediately after use. You can also use denatured alcohol to clean any tools the product has set up on.

LIMITATIONS

- Do not apply in temperatures below 55°F (12°C) or above 85°F (29°C). Hot or cold weather will affect cure times.
- Do not apply in windy conditions. Even a ceiling fan can cause frustration when rolling out because it speeds up dry times.
- Do not apply over damp surfaces.
- Products must be properly stored if not being immediately used. Store above 50°F (10°C) and below 90°F (32°C), sealed, and unmixed.

DISCLAIMER

PRODUCT FAILURE DUE TO IMPROPER INSTALLATION OR DEVIATION FROM THE RECOMMENDED USES &/OR APPLICATIONS WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR/INSTALLER TO COVER THE PRODUCT COST AND LABOR.

IN THE CASE OF A PRODUCT DEFECT BEING THE REASON, A JOINT WARRANTY WOULD COME INTO EFFECT. IF THIS WERE TO TAKE PLACE, MESG PRODUCTS PTE LTD WOULD REPLACE THE PRODUCTS SOLD (NOT TOOLS & EQUIPMENT), AND THE CONTRACTOR OR INSTALLER WOULD COVER THE LABOR.

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DATA

TECHNICAL DATA

Tack Free	70°F (21°C)	6 hours
Foot Traffic	70°F (21°C)	12 hours
Vehicle Traffic / Heavy Items	70°F (21°C)	24 hours
Pot Life	70°F (21°C)	15 Minutes
Working Time	70°F (21°C)	30 - 45 Minutes
Heat Resistance (Constant)	150°F (65°C)	
Heat Resistance (Intermittent)	200°F (93°C)	
Adhesion Rating on Concrete*	5	
Adhesion Rating on Wood*	5	
Adhesion Rating on Steel*	5	
Adhesion Rating on Natural Stone*	5	
Adhesion Rating on Synthetic Stone*	5	
Pencil Hardness	2H	
Sag & Leveling ASTM D4400	4	
Reducer / Clean Up	Water	

Key:

* Based on properly prepped surfaces.

Ratings are based on a 1-5 numbering system, 5 being the best.

PHYSICAL PROPERTIES

Chemical Composition	Water-Based Polyurethane
Gloss @60 Degree	>80
Solids %/wt (mix)	60.0
Solids %/vol (mix)	56.0
Viscosity cPs	700
Viscosity KU	76
VOC gm/l	<50
Shelf Life	1 year
Flash Point	NA

CHEMICAL RESISTANCE

Muriatic Acid (31.5% HCL)	5
Sulfuric Acid (50% H2SO4)	5
Sulfuric Acid (93% H2SO4)	1
Nitric Acid (10% HNO3)	5
Sodium Hydroxide (50% NaOH)	5
Bleach (Sodium Hypochlorite)	5
Transmission Fluid / Gasoline	5
Blood & Body Fluids	5
Mustard	5s
Ketchup	5
Red Wine	5
Acetone	5
Ethanol	5
Methanol	5
Thinner / Turpentine	5

Key: Contact time > 5 hours

5 = Best (no effect)

4 = Softens (recovers)

3 = Softens (no recovery)

2 = Blistered (no recovery)

1 = Worst (destroyed)

S = With Stain