



TDS

MSD FLEXBIND

MSD FLEXBIND top coat is a single component, moisture curing polyurethane coating, used for locking in aggregate on a traffic bearing polyurethane coating system. MSD FLEXBIND is an aromatic urethane coating, which is suitable for interior areas not directly exposed to sunlight.

Product Weight: 9 lbs per gallon

Product Packaging: 5 Gallons

Product Color: Concrete Grey / Tan

RECOMMENDED USES

- Parking decks
- Mechanical room floors
- Roof decks
- Plazas
- Recreation decks
- Walkways
- Balconies

ADVANTAGES

- Impervious to water and/or chloride penetration.
- Resistant to most common chemicals.
- Requires no additional protection when left exposed to pedestrian and/or normal vehicular traffic. Single-component Application
- High Strength, High Adhesion & High Elongation
- Excellent aggregate binding qualities
- Withstands extreme environmental conditions
- Easy Application & Rapid Cure
- Designed for demanding exterior applications
- Adds protection to Concrete, Plywood decks, Parking structures, Mechanical equipment pads & areas that require a seamless membrane for protection against water damage
- In some applications, **MSD FLEXBIND** can be used as a topcoat membrane



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LIMITATIONS

- As a moisture cure product, the relative humidity should be greater than 30% and less than 90% during application and cure of the product. If conditions in excess of this threshold, please contact your MSD sales representative for recommendations.
- Due to variation in substrate porosity, surface profile and aggregate used, achievable coverage rates can vary.
- Application must be to clean, sound, dry substrates at temperatures above 40°F (5C).
- Curing compounds, form release agents, sealers, or other contaminants may interfere with adhesion.
- Adequate ventilation, as recommended in the SDS, must be provided in application areas.

APPLICATION

General Advice:

Surfaces to receive MSD FLEXBIND must be clean, dry, sound, relatively smooth and free of voids, ridges and sharp projections. New concrete surfaces should be water cured or cured with compatible curing compounds.

Surface Preparation:

Shot-blasting must be employed to provide a sound, clean substrate. In areas where shot-blasting is not feasible, consult your sales representative for other acceptable methods of surface preparation.

Detailing:

Joints or cracks should be penetrated prior to general application by routing, grinding and sealing or over-banding with compatible MSD products. Consult your sales representative for product selection. Terminations and penetrations should also be sealed prior to general application.

Precautions:

To ensure safe installation of MSD FLEXBIND, please read the SDS in its entirety before using.

Application:

MSD FLEXBIND must be applied in accordance with manufacturer's specific recommendations.



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APPLICATION

Step 1 - Preparation: Patch and repair where needed. Route cracks over 1/16". Shot blast concrete. Caulk joints and cracks. A 4" wide detail strip of primer and base coat are applied over all cracks less than 1/16" wide, control joints and cold joints.

Step 2 - Base Coat (FLEXBASE): 5 - 7 mil notched squeegee followed by back rolling with a 3/8" nap roller.

Note: Average cure time roughly 16 hours. Can be accelerated with optional accelerant.

Step 3 - Binder (FLEXBIND): 5 - 7 mil notched squeegee followed by back rolling with a 3/8" nap roller

Step 4 - Broadcast: Carefully hand spread or blow aggregate uniformly into wet wear coat of choice, then back- roll.

Step 5 - Top Coat: Apply polyaspartic or polyurethane top-coat of choice per manufacturer recommendations.

TESTING DATA

Hardness (Shore A) ASTM D2240:	80-90
Viscosity @ 77°F (25°C) ASTM D2196 #4 RVT @ 20 rpm:	1500-3000 cps
Flash Point ASTM D93:	110°F (43.3°C)
Cure Time @ 77°F (25°C) ASTM C920:	24 Hours
Abrasion Resistance ASTM D4060 Tabor 1000 rev CS17 Wheel, 1000 grams:	Loss 0.03 grams
Weathering Resistance ASTM G53-83:	Yellowing
Permeability ASTM E398:	1.6 perms
Peel Adhesion ASTM C794:	30 pli
Tensile Strength ASTM D412:	2500 psi
Ultimate Elongation ASTM D412:	100%
Tear Resistance ASTM D1004:	200 pli
% Yield (Wet/Dry):	78%
Pot Life @ 77°F (25°C) ASTM C603:	1-2 hours
Shelf Life @ 77°F (25°C) In Sealed Containers:	6 months
Chemical Resistance:	No effect