



## TBS COMPONENT DATA SHEET

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# EMBE®CRETE TOPCOAT HS

## DESCRIPTION

EMBE®CRETE Topcoat HS is a two component, chemical resistant, ultra high solids aliphatic polyurethane coating. (moisture cured urethane) EMBE®CRETE Topcoat HS is a low VOC, compliant urethane that meets all federal and state environmental air quality standards.

## ADVANTAGES

- Excellent abrasion resistance
- Excellent chemical and stain resistance
- Suitable for both exterior and interior applications
- Low odor
- May be used for both horizontal and vertical applications

## LIMITATIONS

- Substrate moisture testing and preparation is required
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials
- Minimum/Maximum application temperature 50°F/90°F
- Minimum/Maximum relative humidity 30%/90%

- Should be applied over a smooth surface, or if applying over a broadcasted surface, the area should first be grouted
- Can only be applied in 1 coat, never 2

## TYPICAL USES

- Can be used equally well on vertical or horizontal surfaces
- Ideal for concrete floors and walls in warehouses
- Storage facilities
- Aircraft hangers
- Animal housing
- Restrooms
- Vehicle maintenance facilities
- Hangers
- Areas where high chemical resistance and stain resistance is required

## APPLICATION: SURFACE PREPERATION

Surface preparation is the most critical portion to any successful resinous flooring system application. Work must be performed by trained or experienced contractors or maintenance personnel.

## INSTALLATION

EMBE®CRET Topcoat HS is normally applied with a brush, short nap roller, or squeegee and back-rolled very thoroughly with a short nap roller. Care should be taken to minimize the entrapment of air caused by over-rolling. Apply material within the recommended thickness range and allow to cure tack free prior to topcoating. Do not thin material. EMBE®CRETE HS must be aggressively sanded prior to application of a second topcoat. EMBE®CRETE TOPCOAT HS is a moisture cure urethane, relative humidity will significantly effect cure speed.

## TECHNICAL DATA

Hardness	2H to 3H
ASTM D 3363 (pencil)	
Abrasion Resistance	10-20 mgs/1000
ASTM D 4060	Cycles, CS-17
(Taber Abraser 1000 gm load per wheel)	Wheel
Solids Content (by volume)	90% clear
	93% pigmented
VOC	100% g/L
Dry Film Thickness	2.8-2.9 mils @
	500 ft <sup>2</sup> /gallon
	application
	thickness

## CURE/DRY TIME (applied at 450-500 ft<sup>2</sup>)

Pot life - 2 hrs @ 75°F, 50% RH  
Re-Coat (must sand 1<sup>st</sup> coat) – 8-10hrs @ 75°F, 50% RH  
Light service (foot traffic) – 16 – 24 hrs @ 75°F, 50% RH  
General Service (vehicle traffic) – 72+ hrs @ 75°F, 50% RH \*varies by temp and RH\*  
Full cure and maximum resistance to staining – 5-7 days @ 75°F, 50% RH \*varies by temp and RH\*

## CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner.

## COVERAGE

EMBE®CRETE HS clear will yield 3.0 – 3.2 mils DFT when spread 450 – 500 ft<sup>2</sup> per gallon

EMBE®CRETE HS pigmented will yield 3.0 – 3.3 mils DFT when spread 450 – 500 ft<sup>2</sup> per gallon.

## THEORETICAL COVERAGE

400 – 500 ft<sup>2</sup> per gallon (500 – 625 ft<sup>2</sup> per 1.25 gallon unit)

## CHEMICAL RESISTANCE

<u>REAGENT</u>	<u>RATING</u>
Acetic Acid 5%	L
Acetone	L
Betadine	R
Beer	R
Bleach	L
Brake Fluid	R
Citric Acid-30%	R
Citric Acid 40%	L
Crude Oil	R
Diesel Fuel	R
Ethylene Glycol	R
Fatty Acids	L
Gasoline	R
Hydrochloric Acid 15%	R
Iodine	R
Lactic Acid 15%	R
Methyl Ethyl Ketone	L
Nitric Acid 10%	R
Orange Juice	R
Peroxide 35%	R
Phosphoric Acid 85%	L
Skydrol	R
Sodium Hydroxide 50%	R
Sulfuric Acid 20%	R
Toluene	R
Urea	R
Vinegar	L
Xylene	R

R – recommended for continuous service  
L – limited recommendation, occasional spills  
with frequent cleaning

### SAFETY PRECAUTIONS

Please refer to our MSDS sheet