

TD.644 – TECHNICAL DATA: HERMETIC™ Paramount Floor

Revised: 3/16/2023 Version: 1.2

Product Class: A high-build epoxy coating and binder for commercial and industrial applications.

Description: HERMETIC™ Paramount Floor is 100% solids, high build, non-slip, non-shrink, multi-component resinous floor designed for a wide variety of applications. These flooring systems will not blush or water spot and has excellent physical and chemical resistant properties. Available in standard and fast set formulas and a multitude of colors.

Typical Uses:

- Sealing and protecting interior concrete floors.
- Self priming.
- On dry, properly prepared concrete surfaces.
- Concrete surfaces for foot traffic and vehicular pneumatic tires.
- As a highly abrasion and skid resistant floor coating
- Used in many of the HERMETIC™ Flooring Systems.

Key Features:

- Nearly No Odor
- 100% Solids (0% VOC)
- Non-Shrink Coating
- Fast Cure Rate
- Excellent Strength Properties
- Excellent Impact Resistance
- Easy to Place
- Slurry, Broadcast
- USDA, FDA, and CIFA Acceptable
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Product Properties: Material and curing conditions at 73°F (23°C) unless noted, 50% R.H.

	<u>Standard Cure</u>	<u>Fast Set</u>
• Color: varies	• Tack Free: 7 to 8 hours	4 to 5 hours
• Pot Life: 20 minutes (standard set) 15 minutes (fast set) – Out of the mixing container.	• Foot Traffic: 9 to 10 hours	5 to 6 hours
	• All Traffic: + 12 hours	+ 8 hours
	• Consistency: slurry design mix	

Physical Properties

(@73°F (23°C), 7-day ambient cure as a coating)

Compressive Strength	ASTM D 695	14,000 psi minimum (With Agg)
Tensile Strength	ASTM D 638	4,100 psi
Elongation at Break	ASTM D 638	4.1%
Flexural Strength	ASTM D 790	4,200 psi
Abrasion Resistance		
CS-17 Wheel, 1 kg load	ASTM 4060	>0.5 mg loss
Water Absorption (2-hour boil)	ASTM D 570	0.09%
Shore D Hardness	ASTM D 2240	90+ (7 days)
Heat Distortion Temperature	ASTM D 648	128°F standard set 128-145°F fast set
Volatile Organic Content		0.00 lbs. per gallon
Slant Shear	ASTM C 882	100% concrete failure

**Chemical Resistance
Splash & Spill Applications**

Water (fresh and Salt)
1%-50% Sodium Hydroxide
1%-10% Sulfuric Acid
1%-10% HCL
Gasoline

Butanol
Xylene
111 Trichloroethane
Diesel fuels
Skydrol Fluids (including LD- 4)

Suggested Storage:

- Store in a temperature and weather-controlled area between 65° F / 18° C and 85° F / 29° C.
- Do not allow to freeze.
- Shelf Life: 1 year in original unopened containers.

All Elite Crete Systems resins mixing and application guide for HERMETIC™ Paramount Floor

This heavy-duty abrasion and non-slip flooring system can be utilized with all Elite Crete Systems flooring resins: E100 Series (PT1, PT4, UL7, UV1, VR1, NV4 and NV5).

Scope of system:

HERMETIC™ Paramount Floor is a seamless, abrasion and non-slip heavy duty surface, designed for extreme traffic areas and wet slippery floor areas.

Preparation of the substrate:

As with all concrete surfaces, remove all loose, weak, material, including laitance and contaminants with proper mechanical equipment and appropriate degreaser as required, leaving a sound clean substrate ready for Elite Crete Systems selected resin which are all self priming.

Mixing and application:

For every mixed gallon of Elite Crete Systems resin, add the following ingredients;
1 quart of silica flour (Sill -o- Sill #75, and 2 quarts of 45-50 mesh dry silica sand).

Thoroughly mix in the selected resin with a standard mud paddle and variable speed drill for 2 minutes or until completely wetted out.

Immediately after mixing, pour out the entire mix onto the prepared substrate in a puddle (not in ribbons), and spread with an 1/4" 'V' notched trowel @ a rate of 18 square feet per mix. Do not back roll this coat, while still wet, broadcast 45-50 mesh dry silica sand, or color quartz sand or aluminum oxide to excess (no wet spots showing) Allow to cure 7-8 hours for standard set and 4-5 hours for fast set depending upon ambient temperature.

After cure, sweep up excess media and vacuum clean.

Mix the selected top coat and pour in ribbon onto surface and spread with a flat squeegee @ 85 sq. feet per gallon, and back roll with a 1/4" to 3/8" non linting roller ensuring there are no holidays and completely covered surface.

If the Owner requires an additional coat of AUS-V urethane top coat may be applied after the epoxy top coat has cured.

Protect the area from all traffic and weather while in the curing process.

Allow to cure 48 hours @ 73°F (23°C) longer at lower temperatures before allowing traffic on surface.