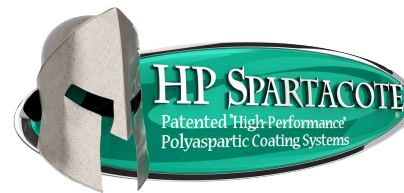


PRODUCT DATA SHEET

HYDRO-SHIELD SL™ BY HP SPARTACOTE®



PRODUCT DATA

Type of Material: 2-component clear epoxy
VOC Content: 0 g / L
Density: 9.08 lbs/gal (1.09 +/- .02 kg/L)
Viscosity: 600 +/- 80 cps (mPa*s) @ 77° F (25°C)
Solids Content: 100%
Pot Life: 35 minutes
Minimum Re-coat:* 12 Hours
Light Foot Traffic: 12 Hours
Maximum Re-coat: 5 days, observe dew point

Mixing Ratio:* 1.5 part A; .9 part B, do not remove components of vessel prior to mixing. follow mixing instructions exactly.
Working temperature: 50°F - 95°F (10°C - 25°C)
Curing temperature: Min 50°F
Full Cure: 7 days
Adhesion to Concrete: + 400 PSI, concrete fracture
Shelf Life: 2 years in closed original packaging
Packaging: 2.4 Gal unit, A & B combined. 7.3 Gal kit, part A and B in separate vessels.

GENERAL INFORMATION

Hydro-Shield SL™ is a 2-component, moisture tolerant, low viscosity, solvent free, chemically enhanced epoxy based product which reduces the passage of water vapor and moisture through slabs on or below grade, thus preventing the de-lamination of concrete floor coatings. Hydro-Shield SL™ may be used as a stand-alone coating or in conjunction with other HP Spartacote® systems. It reduces water vapor transmission levels of up to 25+ lbs/24 hrs*1000 sq. ft. to 3 lbs or less (100% RH to ≤75%) for the installation of floor coating systems.

FEATURES & BENEFITS

- Vapor & water barrier
- Minimal downtime
- One-coat system with no broadcast
- No Odor, Solvent or VOCs
- Can be used over green concrete (min of 5-days)
- Superior inter-coat adhesion with Sparta-Flex® Polyaspartic coatings.
- Can be applied to damp concrete
- Reduces moisture emission of up to 25 lbs to 3 lbs

COMMON USES

- Concrete slabs with missing or damaged moisture barrier underlayments
- Fresh Concrete Slabs that are 5-days or older
- Damp Concrete
- All commercial, industrial and residential coatings.

SLAB TESTING PRIOR TO APPLICATION

It is recommended that the owner of the facility tests slabs with unknown history for contaminants (i.e. hydrocarbons, other organic compounds, un-reacted water soluble silicates, ASR, Sulfurous compounds, etc.) to determine suitability for Hydro-Shield SL™. HP Spartacote® strongly recommends "Anhydrous Calcium Chloride" testing as per ASTM F 1869-98 on slabs to be treated, to determine the MVER (moisture vapor emission rate) in lb/24 hrs*1000 sq. ft. Installer may also determine RH content (%) as per ASTM F 2170. The testing must be carried out before application of to obtain warranty. MVER fluctuates within slab areas, and can have significant seasonal variations (i.e. in Nov./Dec. 6 lbs and in July/Aug. 16 lbs or more).

SUBSTRATE PREPARATION

All concrete surfaces must be clean, sound and have an open surface. Do not apply to surfaces which have been previously treated with any kind of sealer.

1. Remove existing floor coverings, coatings, adhesives, curing compounds, efflorescence, dust, grease, laitance, etc. down to bare concrete with steel shot blasting, scarifying or grinding using a diamond cup blade (run with low RPM and assure that surface is profiled). Standard acid etching is NOT allowed. Steel shot blast or abrasive blast concrete slabs to surface profile ICRI CSP 3.
2. Burn off reinforcing fibers and vacuum remains.
3. Repair cracks with HP Spartacote Fast Fix® & Treat Saw Cuts / Expansion joints with 2 component flexible joint filler such as Joint-Flex™ from HP Spartacote®
4. Carefully pre-dampen all the prepared surfaces several times with clean water to "Saturate Surface Dry" or "SSD". Be careful to leave no standing water.

MIXING

Use chemical resistant gloves and goggles when mixing or applying Hydro-Shield SL™. Material should be minimum 60°F (15°C) at time of mixing.

- Do not alter mixing ratios.
- Do not thin.
- Part A (A-Component) = resin
- Part B (B Component) = hardener are supplied in the appropriate mixing ratio.
 1. Assure that Part B completely drains into Part A. Always mix a complete kit in the proportions supplied.
 2. Stir mixture for approximately 3 minutes to a homogenous, streak free consistency, using a slow speed drill (approx. 300 rpm) with a Jiffy blade. Avoid any action that may entrap air. Ensure that the material at the pail sides and bottom are agitated.

APPLICATION

1. Pour mixed material from the mixing container into a clean container and carefully mix it once more (approx. 30 seconds).
 - Do not apply at air or slab temperature below 50°F (10°C), or above 95°F (35°C).
 - Do not apply to unprotected surfaces or surfaces where water has accumulated (puddles).
2. Hydro-Shield SL™ can be applied to concrete that is at least 5 days old.
 - After steel shot blasting or scarifying, check slab surface with the water drop method. Pour a drop of water about the size of a dime in several places. If it beads, surface is not absorptive and requires more preparation. If it penetrates the concrete within approx. 30 seconds the surface is absorptive and ready to receive the Hydro-Shield SL™ treatment. However, this method does not replace pre-testing of concrete cores. A test application is highly recommended on old slabs where a sealer may be present, or slabs where an epoxy coating has been removed, followed with an adhesion test (i.e. Elcometer, etc.).
 - Protect the area to be treated from strong sun light, wind and rain. Indoors, prevent noticeable drafts.
 - Insure that the material is applied within the coverage rate specifications by marking the area to be covered.
 - Install Hydro-Shield SL™ as per the chart "Application Rates":
 1. Step 1: Pour "Hydro-Shield" in sufficient quantity over the pre-dampened area to be treated and uniformly distribute with a 1/8" notched squeegee or non-shed roller to the still moist substrate.
 2. Step 2: follow with a non-shed roller to achieve uniform coverage. Note: Hydro-Shield™ is self leveling and has low viscosity, tending to flow to low areas where it can build-up.
 - 3. Hydro-Shield SL™ does not require broadcasting of sand.
 1. Protect fresh application from rain for 4 - 6 hrs.
 2. Observe relative humidity and Dew Point when installing flooring system over Hydro-Shield™
 3. Shoes must be protected with cloth (i.e. Tyvek) booties when walking over cured Hydro-Shield prior to installation of flooring system!
 - 4. Subsequent top coatings of Sparta-Flex®, Sparta-Flex® XT™ and Sparta-Flex® PURE™ polyaspartic coatings must be applied within the 12 hr to 5 days re-coat timeframe.

Hydro-Shield SL™ Application Rates ~ Based on Moisture Vapor Emission Rate (MVER) (ASTM F-1869)				
MVER: lb/24 hr. * 1000 sq. ft.	# of Coats	Coverage: sq. ft. / gal	Thickness (mils)	Yield per 2.4 gal unit
≥ 10	1	155	10	370
10 - 15	1	130	12	310
15 - 20	1	105	15	250
20 - 25	1	80	20	190
New Concrete	1	80	20	190

Hydro-Shield SL™ Application Rates ~ Based on Relative Humidity Testing (ASTM F-2170)	
≥ 85% RH	155 sq. ft. / gal.
85 - 90% RH	130 sq. ft. / gal.
90 - 95% RH	105 sq. ft. / gal.
95 - 100% RH	80 sq. ft. / gal.

*All measurements are theoretical, actual thickness may vary depending on slab porosity

* Post cracking of concrete, warping or slab relaxation may cause a breach of the coating, voiding any warranty.

CLEANUP

Use Xylene or MEK. Do Not use Alcohols.

SAFETY

Coating products contain chemical ingredients that are considered hazardous. Read the container label warning and Material Safety Data Sheet prior to use.

LIMITED WARRANTY

HP Spartacote® warranties that this product will be within consistent quality and manufactured in accordance with manufacturer's specifications. Given that the manufacturer holds no control over the use, HP Spartacote® does not warranty the installation Sparta-Flex®. Manufacturer's warranty shall be limited to the refunding of any materials determined to be defective.

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