

TD.481 – TECHNICAL DATA: SPARTIC-ALL™ TMS

Revised: 10/02/2023 Version: 1.0

Product Class: A fast curing, UV stable, clear floor coating for interior residential, commercial, and industrial use.

Description: SPARTIC-ALL™ TMS is a medium solids, water clear, non-shrink, two-component polyaspartic ester floor coating. Ideal for protecting interior resinous flooring and concrete where a UV stable, fast cured floor is required. Exhibits a higher abrasion and stain resistance as compared to most epoxy coatings.

Typical Uses:

- On dry concrete surfaces and concrete overlays without moisture present.
- Interior concrete surfaces for foot and vehicular traffic.
- As a gloss or satin clear top coat.
- As a protective finish for warehouses, medical facilities, commercial floors, manufacturing, etc.
- As a clear finish for flake or quartz broadcast finishes.
- Protective top coat for REFLECTOR™ and HERMETIC™ flooring systems.

Key Features:

- High gloss
- Low odor
- Non-shrink coating
- Antimicrobial
- Can be pigmented in the field
- Complies with all applicable air quality management regulations including those restricting VOC content to less than 150 g/L.
- Fast cure schedule typical 1.5 to 3 hours when applied in normal conditions (77° F / 25° C, 50% R.H.) and at recommended coverage
- High abrasion resistance, anti-water spotting, tensile and compressive strength

Product Properties: Material and curing conditions at 77° F / 25° C unless noted, 50% R.H.

- Color: Clear (can be pigmented)
- Viscosity @ 77° F / 25° C, 50% R.H.
 - 300 – 700 cps.
- Pot life: 10 to 15 minutes
- Consistency: Semi self-leveling
- Mix Ratio: 2 Parts B to 1 Part A by volume

<u>Physical Properties</u>		
(@77° F / 25° C, 50% R.H. 7-day ambient cure)		
Tensile strength, 7 days	ASTM D638	7,100 psi
Elongation at break		9.2%
Flexural strength, 7 days	ASTM D790	11,100 psi
Compressive strength, 73° F / 23° C	ASTM D695	
8 hours		7,300 psi
1 day		11,200 psi
7 days		14,100 psi
Hardness, Shore D, 7 days	ASTM D2240	76
Pendulum hardness		180 sec.
Bond strength		900 psi
Water absorption, 7 days	ASTM D570	0.33%
Taber abrasion	ASTM D4060	
1,000 g load, 1,000 cycles, CS-17 wheel		9.5 mg loss
Impact, in/lbs.	ASTM D2794	
Direct		80 in/lbs.
Reverse		20 in/lbs.
Gloss	ASTM D523	90+
Brookfield viscosity	ASTM D2196	1,500 cps
Slant shear strength, 7 days	ASTM C882	
90° F / 32° C		6,200 psi, 100% concrete failure
40° F / 4° C		5,300 psi, 100% concrete failure

*Refer to TD.402 for SPARTIC-ALL™ TMS chemical resistance information.

Limitations:

- Requires a working vapor barrier in some instances to protect from vapor emission or moisture concerns.
- Not recommended for surfaces subject to continuous water submersion.

Coverage:

Coverage rates vary depending on the application use.

- As a neat application: 160 sq. ft. / gal or 14.9 m² / 3.78 L
- As a body coat for broadcast systems: 100 sq. ft. / gal or 9.3 m² / 3.78 L
- As a protective top coat (must use AGG): 500 sq. ft. / gal or 46.5 m² / 3.78 L

Available packaging:

- 1.5 gal, 3 gal, and 15 gal kits

Cautions, Clean Up, and First Aid:

- Although SPARTIC-ALL™ TMS has low odor and carries low VOC, it should only be used with adequate ventilation. Avoid contact with eyes and skin. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. If you experience watering eyes, headaches, or dizziness or if air monitoring demonstrates vapor levels are above applicable limits, wear a properly fitted respirator (NIOSH/MSHA TC 23C approved) during application. Follow respirator manufacturer's directions for use. SPARTIC-ALL™ TMS is an irritant which can develop redness of skin and allergic reaction. Always use protective clothing, gloves, and eye wear.
- Refer to SDS.465 for additional information before use.

Additional Notes:

- See document: *TD.200 – Resinous Flooring Guidelines* for information pertaining to rising damp, vapor transmission and applicable recommended testing methods prior to use.
- Preconditioning high solid two component resins - When exposed to prolonged periods of cold temperature, resins typically thicken, may crystalize and become harder to flow or spread. To improve the product flow-ability maintain temperature at about 70° F / 21° C before mixing. Crystalized resin can be reconstituted at 90° F / 32° C for 12 hours and remixed.

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 from date of manufacture.