

PRODUCT DATA SHEET
SPARTA-FLEX® PURE™ BY HP SPARTACOTE®



US Patents: 6.833,424 & 7,169,876

PRODUCT DATA

Type of Material: Polyaspartic Aliphatic Polyurea

VOC Content: 0 g / L

Recommended Dry Film Thickness: 0.001 to 0.002 inches per coat

Shelf Life: 12 months unopened. Store at 40°F in a covered area (out of the sun)

Pot Life:* 15 to 20 minutes

Minimum Re-coat:* 2-3 Hours, minimum

Light Foot Traffic:* 2-3 Hours minimum

Maximum Re-coat:* 24 hours (contact manufacturer)

Mixing Ratio:* 1.0 part A; 1.0 part B

Tensile Strength: ASTM D 638: 4,500 to 5,000 psi

Impact Resistance: Direct/Reverse 160/160

Falling Sand Abrasion Resistance ASTM D 968:

Clear.....30 liters sand/1 dry mil

Pigmented.....38 liters sand/1 dry mil

Mandrel Bend, ASTM D 522:

Passes, no cracking, 1/8" mandrel bend

GENERAL INFORMATION

Sparta-Flex PURE™ is an odorless fast-curing two-part polyaspartic aliphatic polyurea sealer/finish coating for both decorative and protective applications. The material is applied in single or multiple coats by brush, roller or squeegee varying thicknesses to a variety of substrates including concrete and metal. It can be applied as a top coat employed within seamless multi-build chip/quartz seamless flooring systems. Important characteristics of Sparta-Flex PURE™ are its rapid-cure capabilities, tremendous bond strength, UV resistance and excellent color/gloss retention.

Sparta-Flex PURE™ provides excellent impact, abrasion, and chemical resistance characteristics. Suitable for high traffic interior or exterior applications, the material is ideal for clear topcoat sealer applications over decorative concrete, walkways, commercial applications, industrial facilities, swimming pool decks and garage floors.

FEATURES & BENEFITS

- Walk-on in hours, 24-hour return to service
- No Odor, No VOCs
- Excellent abrasion, impact & wear resistance
- UV-Resistant; retains optical clarity of clear sealer/finish
- Maximum Re-coat time: 48 hours
- Low temperature cure (35°F)
- Excellent chemical & stain resistance, resistant to skydrol
- Resistant to hot-tire pickup
- Micro-Media agents can be introduced as traction additives
- Tolerant to fire for random, incidental heat contact
- Meets FDA/CFSAN, U.S. Food Code, physical facilities criteria as outlined in 6.100.11 Surface Characteristics USDA acceptable. Not intended for 21 CFR food contact.

COLORS

Sparta-Flex PURE™ is available in a water-clear gloss finish as well as all standard HP Spartacote® colors, including safety colors.

COMMON USES

- Multi-coat high traffic commercial and industrial solid color concrete flooring system consisting of multiple pigmented coats and clear top coat(s).
- Multi-coat residential garage floor coating consisting of multi-build simulated granite paint chip or quartz flooring systems.
- Two-coat blasted steel coating application consisting of 1 zinc-rich primer coat followed by one-coat of Sparta-Flex PURE™.
- Clear sealer or finish coating over decorative concrete surfaces. Includes acid stained and semi polished concrete, polymer modified overlays and stamped concrete.
- UV-resistant sealer for exterior applications

COVERAGE

Microns	100-microns	125-microns	150-microns	175-microns	200-microns	225-microns	250-microns
Sq.M Per Coat/L	10	8	6.6	5.7	5	4.44	4

SURFACE PREPARATION

Sparta-Flex PURE™ can be applied directly to concrete, or as an intermediate or top coating in conjunction with other HP Spartacote® products.

Surfaces to be coated must be free of grease and any other contaminants that may impede adhesion. Always check the surface for any bond inhibitors prior to application. Any repairs must be addressed prior to application and should be repaired in accordance with ICRI standards.

A moisture emission measurement system is necessary to assess the moisture drive of a concrete slab prior to installation of any toppings or coatings. The transmission rate must not exceed three pounds per 1,000 square feet per 24 hours. The relative humidity of the slab must not exceed 80%. If there is a moisture emission situation in excess of the above rate, consult HP Spartacote, Inc. for vapor control flooring application systems. The application process will depend on the system being installed, reference appropriate specification for details.

MIXING

Note:

Maintaining a consistent storage temperature prior to application will maximize working time.

Pigmented Coatings:

Add full contents of aspartic resin tint pack directly into short filled Part A Tint Base. Mix pigment into Part A with a slow speed drill mixer for 2 minutes to fully disperse the resin pigments. Failure to properly mix pigments may lead to an inconsistent finish and reduced product performance.

Mixing Part A with Part B:

Mix part A and part B in equal parts (1:1) using a clean, dry working vessel. Use a paddle mixer on slow speed for 2 minutes. Avoid over-mixing or creating a vortex that would introduce air. Do not mix below the dew point, which will shorten the pot life. No induction time is required prior to use. If micro-media agents are to be incorporated, they are to be added after thoroughly mixing A and B.

APPLICATION

Suggested application thickness is 0.001 to 0.002 T per coat, per S. Contact HP Spartacote® directly for specifics on effective application techniques. Maximum application mil thickness in a single application is 0.002 s.

Material will be dry to the touch 2-3 hours after application, dependent on ambient temperature, slab temperature and humidity. Product may be re-coated within 2-24 hours following application. Light foot traffic is acceptable 3-hours following application and vehicular traffic is acceptable 24 hours after application.

If using as a top-coat over Epoxy, it is critical that the epoxy not be let down with alcohol during the installation of the Epoxy. Always apply over Epoxy within the manufacturer's recommended re-coat time.

CLEANUP

Use Xylene or MEK. Do Not use Alcohols

SAFETY

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

WARRANTY

HP Spartacote® warrants 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.

Sparta-Flex PURE™ Product Data Sheet

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