



Product Data Sheet

Water Safety Surfacing System

Water Flecks®
Product Data Sheet
rev 091126

PRODUCT DESCRIPTION

Water Flecks® is a water-play safety surfacing system consisting of UV-resistant, granulated thermoplastic rubber (TPR) mixed with a two-part chlorine-resistant urethane binder. The system is designed for aquatic environments and long-term exposure to chlorinated water, including applications where the surface may be subjected to continuous or intermittent water exposure.

Water Flecks® may be installed directly over suitable concrete substrates or, where a cushioned configuration is specified, in combination with EnviroFluff®. The finished surface provides a non-slip, decorative surface and is available in porous and non-porous finishes.

Water Flecks® is designed to resist fading, cracking associated with freeze-thaw exposure, and deterioration from UV and chlorinated-water exposure. Actual performance depends on substrate condition, system configuration, installation, environmental exposure, maintenance, and use.

KEY SYSTEM FEATURES

- Thermoplastic rubber (TPR) wear-course.
- Two-part chlorine-resistant urethane binder.
- Designed for aquatic/water-play environments.
- Excellent UV resistance and light stability.
- Excellent resistance to chlorinated water.
- Non-slip surface characteristics.
- Porous and non-porous finish options.
- May be combined with EnviroFluff® where a cushioned configuration is specified.
- Multiple colors may be blended into customer blends, patterns, and designs.
- Designed to resist freeze-thaw environmental cycles.

SYSTEM COMPONENTS

Component	Product	Description
Wear Course	Flecks® TPR	1-2mm granulated thermoplastic rubber (TPR)
Wear Course Binder	Flecks® Binder	Two-Component aliphatic urethane, resistant to chlorinated water mixed with Flecks® TPR granules in water play applications
Primer (Cushion Layer & Hard Substrates)	Flecks® Primer	Single Component aromatic primer applied to hard substrates and EnviroFluff® cushion base layer
Cushion Layer	EnviroFluff®	Thermoplastic foam cushion base
Cushion Layer Binder	Flecks® Binder	Two-Component aliphatic urethane, resistant to chlorinated water mixed with EnviroFluff® ground particles in water applications
Trowel Lubricant	Trowel EZ	A dibasic ester mild solvent used as a lubricant when applying Flecks® colored wear course and EnviroFluff® cushion layer
Non-Porous (Impervious) Finish	Flecks® Grout	Two-Component aliphatic urethane, designed to be used to fill in the pores of the Flecks® colored wear course, creating a non-porous/impervious finish
Non-Porous (Impervious) Finish Sealcoat	Flecks® Sealcoat	Two-Component aliphatic urethane, designed to be used as a thin topcoat applied as a final finish onto a grouted Flecks® colored wear course, creating uniform finish

Flecks Systems, Inc.

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PHYSICAL PROPERTIES

Property	Listed Value
Elongation	300%
Tensile Strength	25 mPa
Hardness Shore A	65
Density	48 lbs. cu ft.

MECHANICAL PROPERTIES

- Compression Set: Excellent
- Rebound Rating: Good to Excellent
- Flexural, Crack Resistance: Good to Excellent
- Shrinkage Resistance: Excellent
- Abrasion Resistance: Good
- Tear Resistance: Good
- Impact Resistance: Good to Excellent
- Flame Resistance: Good

TECHNICAL PROPERTIES

Property	Specification / Value
Particle Size	1mm – 2mm
Composition	TPR (Thermoplastic Rubber)
Water Flecks® Wear Course Mixing Ratio	45 lb. bag to 5.5 quarts of Flecks® two-component aliphatic urethane binder
Water Flecks® Spread Rate	36 - 38 sq. ft. per bag at 3/8-inch thickness
EnviroFluff® Mixing Ratio	18 lb. bag to 4 quarts Flecks® two-component aliphatic urethane binder
EnviroFluff® Spread Rate	1 lb. per sq. ft. at 1-inch thickness
Flecks Grout Mixing Ratio and Spread Rate	Mix Flecks® Grout: 3A to 2B. One gallon of mixed Flecks® Grout will cover 40-50 sq. ft.
Flecks Sealcoat Mixing Ratio and Spread Rate	Pre-Mix Flecks® Sealcoat 1A to 1B. Add 0.5 Parts Trowel EZ and Mix. One gallon of mixed Flecks® Sealcoat will cover 200 - 300 sq. ft.

ENVIRONMENTAL RESISTANCE

- Thermal Shock: Excellent
- Ozone Resistance: Excellent
- UV Resistance / Light Stability: Excellent
- Chlorinated Water Resistance: Excellent
- Oxidization Resistance: Good
- Chemical Resistance: Good to Excellent
- Radiation Resistance: Good
- Non-Leaching: Excellent

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COLORS & DESIGN

Water Flecks® is available in multiple colors that can be blended to create color combinations, patterns, and designs. Refer to the current Flecks® color chart for available colors.

FINISH OPTIONS

- Porous Finish: The standard Water Flecks® system is a porous finish.
- Non-Porous (Impervious) Finish: Water Flecks® colored wear course finished with Flecks® Grout and Flecks® Sealcoat to create a non-porous surface.
- Finish selection should consider state and local health codes for surfacing, drainage, substrate pitch, and project-specific design conditions.

ENVIROFLUFF® CUSHION BASE APPLICATION

- EnviroFluff® cushion layer may be applied underneath the Water Flecks® colored wear course to provide additional impact attenuation benefits. The substrate must be a new or existing concrete substrate. Flecks® Binder must be used to mix with EnviroFluff® particles.
- When EnviroFluff® cushion base is used in a water play environment, consideration must be given to the overall system thickness, including the finished wear course, as well as the elevation and height of drains, spray jets, water features and other project-specific designs elements.

INSTALLATION

- Install only over properly prepared, structurally sound, clean, dry, and suitable substrates.
- Concrete Substrates shall be properly cured and prepared in accordance with current Flecks® Systems, Inc. manufacturer specifications.
- Water Flecks® shall be installed as a complete poured-in-place system by Flecks® trained installers in accordance with current Flecks Systems, Inc. installation procedures, included as part of Flecks® Systems, Inc. manufacturer specifications.
- Do not alter mixing ratios, component substitutions, or installation procedures without written approval from Flecks Systems, Inc.

PERFORMANCE / TESTING

Water Flecks® performance characteristics stated in this Product Data Sheet are based on manufacturer product information. When Water Flecks® is incorporated into playground-like or other fall-protection application, the complete installed system must be evaluated and specified for the applicable project requirements.

No ASTM impact-attenuation certification is stated herein unless supported by a current laboratory test report applicable to the exact Water Flecks® system configuration.

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MAINTENANCE & CARE

Proper maintenance is essential to maximizing the service life, performance, and appearance of a Water Flecks® surface in a water-play environment.

For recommended cleaning procedures, approved cleaning methods, water-chemistry considerations, and routine maintenance requirements, please refer to the Flecks Systems, Inc. Maintenance & Care Guide.

WARRANTY

Refer to current Flecks Systems, Inc. warranty documentation for applicable warranty terms and limitations.

IMPORTANT NOTICE

The technical information, product properties, performance data, mixing ratios, and coverage rates stated in this Product Data Sheet are based on manufacturer product information as of the revision date. Actual field performance may be affected by substrate conditions, training, installation, environmental conditions/exposure, maintenance, use, workmanship, and other site-specific factors.

Always use the most current Flecks Systems, Inc. installation instructions, technical documentation, safety data sheets, warranty and maintenance documents, and approved system details. Product data and installation requirements are subject to change without notice. This Product Data Sheet does not constitute a guarantee of project-specific performance or suitability for a particular application.

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