



## Product Data Sheet

EnviroFluff®  
Product Data Sheet  
rev 032117

### Product Description:

EnviroFluff® is a combination of a skin layer of thermoplastic olefin and an olefin foam which is produced in sheet form then granulated into shredded particles ranging in size from .05 mm to 10 mm.

EnviroFluff® has been designed to have a high resistance to environmental degradation and most chemicals. When mixed with a polyurethane binder it produces a cushioned layer for use in playground safety surfaces and passes ASTM F1292-13 Impact Attenuations without the harmful effects to children and the environment as do the current SBR cushions used today.

EnviroFluff®, with its patented design, can also be used as the first and only safety surface in water play due to its high resistance to chlorinated water.

### Physical Properties:

1. Elongation: 400% - 600%
2. Tensile Strength – 700-2500 psi
3. Hardness Shore A – 30 85 Shore A
4. Bond Strength to Urethane – 425 psi
5. Flammability – Self Extinguishing
6. Impact Resistance – Passes all impact attenuations.

### Mechanical Properties:

1. Compression Set – Excellent
2. Rebound Rating – Good to excellent
3. Flexural, Crack Resistance - Good
4. Shrinkage Resistance – Excellent
5. Abrasion Resistance - Good
6. Tear Resistance – Good to excellent
7. Impact Resistance – Excellent
8. Flame Resistance – Poor

### Technical Properties:

1. Particle size - .05 mm – 10 mm
2. Composition – TPO skin bonded to Olefin Foam
3. Mixing Ratio by Volume – 22 lbs. to 1 gallon urethane
4. Spread Rate – 1 lb. at 1 sq. ft. per 1 inch
5. Toxicity – Non-toxic; no harmful ingredients

### Environmental Resistance:

1. Recommended Shelf Life – Over 10 years
2. Weather Resistance – Good to excellent
3. U.V. Resistance/Light Stability – Good
4. Ozone Resistance – Good
5. Oxidization Resistance – Good to excellent
6. Water Resistance – Good to excellent
7. Radiation Resistance - Good



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### Chemical Resistance:

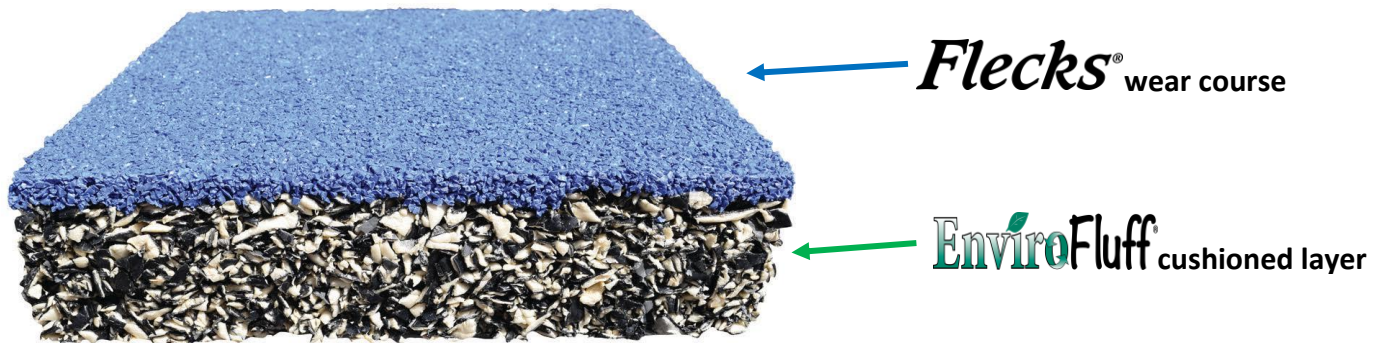
1. Acetone – Fair to good
2. Animal Fats – Good
3. Chlorine – Excellent
4. Fuel Oil – Fair to good
5. Gasoline – Fair to good
6. Mineral Spirits – Good
7. Naphtha – Good
8. Salt Water – Excellent
9. Sodium Hydroxide – Excellent
10. Vegetable Oils – Good to excellent
11. Nitric Acid – Not Recommended
12. Sulfuric Acid – Not Recommended
13. Hydrochloride Acid – Not Recommended
14. Solvent Resistance – Fair to Good

# EnviroFluff®

is a new state of the art cushion base material used in playgrounds and water play applications to provide critical fall height (CFH) protection. EnviroFluff® is made up of a proprietary polyethylene/polyurethane foam with a thermoplastic olefin outer skin that is ground to specification and offers unique energy absorbing properties ideal for a cushioned surface. Unlike traditional SBR (styrene butadiene rubber), EnviroFluff® does not contain harmful chemicals making it safe for both children and the environment. EnviroFluff® will not deteriorate and become brittle over time from exposure to harsh outdoor elements and is designed to offer long-term fall protection in all weather conditions.

When applying our Flecks® wear course, we are able to offer a long-term solution to meeting and exceeding critical fall height testing standards (ASTM F1292), creating the ultimate safety surfacing system for both the playground and water play industries. For playgrounds, EnviroFluff® is mixed with an aromatic urethane binder applied by troweling in place or can be applied with a unique rolling technique.

Combining Flecks® Systems chlorine resistant, two-part aliphatic urethane binder and EnviroFluff®'s superior chemical resistance, you now have the opportunity to create a safer water play environment without worrying about product failure. We are proud to offer the only chlorine resistant (PIP) seamless safety surface available.



## Key Benefits:

- ✓ Meets & Exceeds Critical Fall Height test standards.
- ✓ 100% Recyclable.
- ✓ Totally seamless surface.
- ✓ Patented System
- ✓ Not harmful to children or the environment.
- ✓ Will not deteriorate over time.
- ✓ Chlorine resistant.
- ✓ Easy to install.
- ✓ Lower installation costs.
- ✓ 5-year warranty



For more detailed information, and to locate your local distributor please log on to our website:

[www.FlecksSystems.com](http://www.FlecksSystems.com)