

SHORT STUFF®

Highly Fibrillated HDPE

MF



MF
MINIFIBERS

Advantages of SHORT STUFF® Highly Fibrillated HDPE

- Reduces cracking and shrinkage
- Improves dimensional stability
- Increases tensile properties
- Resists biological growth
- Improves film formation
- Low moisture content
- Low oil absorption
- Rheological effect
- Shear thinning
- Does not swell
- Non-hazardous
- Wet or dry mix application
- Smooth or textured coatings
- Durable; withstands high shear
- Reduces dusting from other products
- Improves particle suspension

SHORT STUFF® highly fibrillated HDPE is a unique form of fibrillated polyolefin, having properties which offer many advantages over conventional products such as fumed silica or cellulose in certain applications.



Variety of Applications

SHORT STUFF® can be used in roof, textured, cement, industrial and asphalt coatings; as well as block fillers, stucco, adhesives, putties, mastics, grouts, caulks, sealants, and more.

Efficiency

Due to their high efficiency, only a small percentage of SHORT STUFF® is required. Normally 0.5 - 1% by weight is all that is necessary.

Reduced Shrinkage

SHORT STUFF® is resistant to swelling and absorption in water and aliphatic solvents; reduced shrinkage means less cracking of the film during drying.

Shear Thinning

SHORT STUFF® provides consistent shear thinning rheology in numerous formulations. When used with other conventional rheological additives, SHORT STUFF® improves application properties of various coatings.



Film Formation and Strength

The addition of SHORT STUFF® in asphalt coatings significantly improves film performance and strength. The resulting film exhibits excellent wet track abrasion, tensile stress and tensile strain.



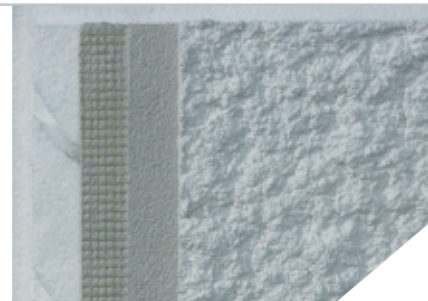
Crack Resistance

The addition of SHORT STUFF® will significantly improve crack resistance, and crack bridging properties. Finished products can acquire a "nailable" quality when an appropriate amount of SHORT STUFF® is added.



Texture

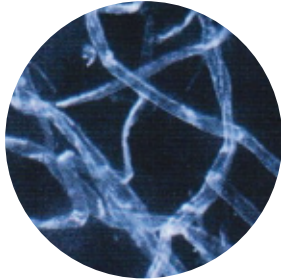
SHORT STUFF® can be used in either a smooth or textured finish. Consideration of the film thickness and the size and amount of SHORT STUFF® used in each individual application is key.



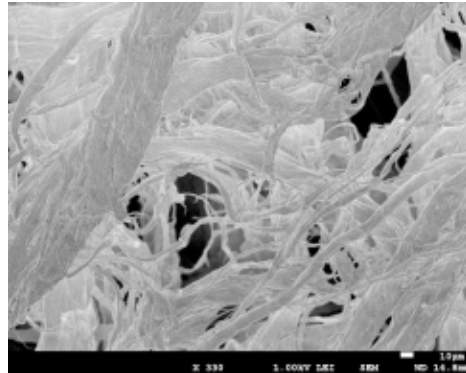
Particle Suspension

When SHORT STUFF® is added to formulas containing traditional rheological additives, it significantly improves the suspension of particles, and reduces hard settling in highly filled paints and coatings.

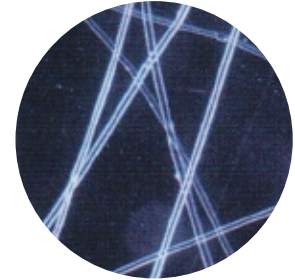
Physical Properties of SHORT STUFF® Highly Fibrillated HDPE



Natural Pulp



Microscopic image of SHORT STUFF®



Polyolefin Cut Fibers

GRADE	ESS5F	* ESS50F	ESS2F	* ESS20F	E380F	* E505F	E620F	E780F	E990F
Average Length (mm)	~0.1	~0.1	~0.6	~0.6	~0.5	~0.6	~0.65	~0.9	~1.0
Diameter (microns)	5	5	5	5	15	15	15	25	20
Surface Area (m ² /gm) Measured by gas absorption	12	12	12	12	8	8	8	8	8
Melting Point	~135°C / ~275°F								
Moisture Content (%)	<2.0								
Specific Gravity (g/cm ³)	0.96								

* For improved dispersion in aqueous systems.

**SHORT STUFF® Highly fibrillated HDPE is available only from
MiniFIBERS and our authorized distributors.**

MINIFIBERS, INC.

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