

# SHORT STUFF® Highly Fibrillated HDPE Fibers

## Advantages of SHORT STUFF<sup>®</sup> Highly Fibrillated HDPE Fibers



- 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 fibers withstand high sheer
- Reduces dusting from other products
- Improves particle suspension

SHORT STUFF<sup>®</sup> highly fibrillated HDPE fibers are a unique form of fibrillated polyolefins, having properties which offer many advantages over conventional products such as fumed silica or cellulosics, in certain applications.

## Variety of Applications

SHORT STUFF<sup>®</sup> fibers 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<sup>®</sup> fibers are required. Normally 0.5 - 1% by weight is all that is necessary.

#### **Reduced Shrinkage**

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

#### **Shear Thinning**

SHORT STUFF<sup>®</sup> fibers provide 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<sup>®</sup> fibers in asphalt coatings significantly improve film performance and strength. The resulting film exhibits excellent wet track abrasion, tensile stress and tensile strain.

#### **Crack Resistance**

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

#### **Texture**

SHORT STUFF<sup>®</sup> fibers can be used in either a smooth or textured finish. Consideration of the film thickness, fiber length, and amount of SHORT STUFF<sup>®</sup> used in each individual application is key.

#### **Particle Suspension**

When SHORT STUFF® fibers are added to formulas containing traditional rheological additives, they significantly improve the suspension of particles, and reduce hard settling in highly filled paints and coatings.







## Physical Properties of SHORT STUFF<sup>®</sup> Highly Fibrillated HDPE Fibers

Grade	ESS5F	ESS50F*	ESS2F	ESS20F*			
Average Fiber Length Expressed in millimeters (mm)	~0.1	~0.1	~0.6	~0.6			
Fiber Diameter Expressed in microns	5	5	5	5			
Surface Area (m <sup>2</sup> /gm) Measured by gas absorption	12	12	12	12			
* For improved dispersion in aqueous systems.							
Melting Point	~135°C / ~275°F						
Moisture Content (%)	<2.0						
Specific Gravity (g/cm <sup>3</sup> )	0.96						



Grade	E380F	E505F*	E620F	E780F	E990F		
Average Fiber Length Expressed in millimeters (mm)	~0.5	~0.6	~0.65	~0.9	~1.0		
Fiber Diameter Expressed in microns	15	15	15	25	20		
Surface Area (m <sup>2</sup> /gm) Measured by gas absorption	8	8	8	8	8		
* For improved dispersion in aqueous systems.							
Melting Point	~135°C / ~275°F						
Moisture Content (%)	<2.0						
Specific Gravity (g/cm <sup>3</sup> )	0.96						

Grade	AU690F		
Average Fiber Length Expressed in millimeters (mm)	~0.75		
Coarseness	Coarse		
Melting Point	~125°C / ~257°F		
Moisture Content (%)	<2.0		
Specific Gravity (g/cm <sup>3</sup> )	0.92 - 0.93		

#### SHORT STUFF<sup>®</sup> highly fibrillated HDPE fibers are available only from



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#### and from our authorized distributor: