

**MINIFIBERS, INC.**

# SHORT STUFF®

Fibrillated Synthetic Pulps



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# Advantages of Short Stuff<sup>®</sup> Pulp



Shipped in 5 kg multi-walled kraft bags.

- *Improves dimensional stability*
- *Rheological effect*
- *Shear thinning*
- *Synthetic*
- *Does not absorb oil*
- *Does not absorb moisture*
- *Does not swell*
- *Resists sunlight*
- *Resists mildew*
- *Resists biological growth*
- *Non-hazardous*
- *Wets out clear*
- *No color interference*
- *Textured coatings*
- *Wet or dry mix*

SHORT STUFF<sup>®</sup> fluffed and dried synthetic pulps are a unique form of fibrillated polyolefin pulps, which have properties that offer many advantages over mineral fibers.

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## Variety of Applications

SHORT STUFF<sup>®</sup> synthetic pulps can be used in roof coatings, block fillers, stucco, cultured marble, adhesives, textured coatings, cement coatings, putties, mastics, industrial coatings, caulks, sealants, and more!

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## Efficiency

Because of their low density, only small percentages of SHORT STUFF<sup>®</sup> synthetic pulps are required. Normally 1-2% by weight is all that is necessary.

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# Reduced Shrinkage

SHORT STUFF<sup>®</sup> synthetic pulps do not absorb or swell in water or aliphatic solvents. Therefore, there is less shrinkage and cracking of the matrix during drying.

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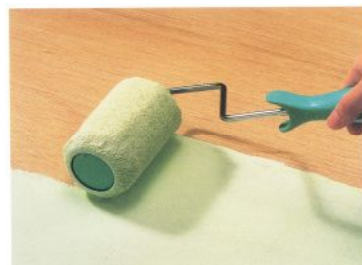
# Shear Thinning

SHORT STUFF<sup>®</sup> synthetic pulps are an effective method of shear thinning in numerous formulations. When used with rheological additives, SHORT STUFF<sup>®</sup> will prevent the settling of pigments, reduce sag, and improve properties essential for application.



# Viscosity

The addition of SHORT STUFF<sup>®</sup> synthetic pulps can directly increase the viscosity of the formulation. This can further be enhanced by the use of a rheological additive with a polar activator.



# Crack Resistance

The addition of SHORT STUFF<sup>®</sup> synthetic pulps will impart significant crack resistance. Finished products can acquire a "nailable" quality when a sufficient amount of SHORT STUFF<sup>®</sup> is added.



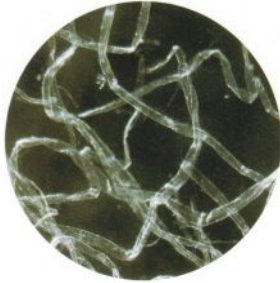
# Texture

SHORT STUFF<sup>®</sup> can be used to acquire either a smooth or textured finish. Depending upon the effect desired, consideration should be given to the fiber length and amount used in each individual application.

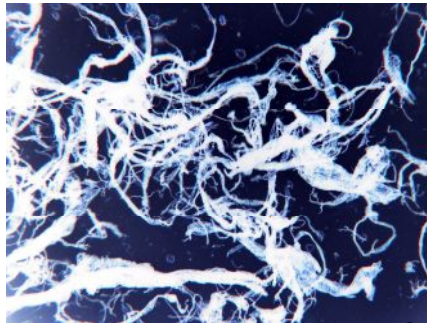


# Strength

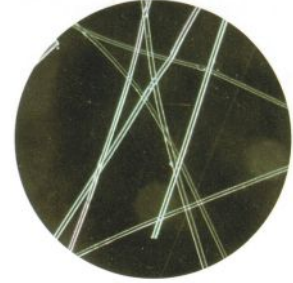
SHORT STUFF<sup>®</sup> can be used in paints and coatings to provide film strength and bridging strength.



Natural Pulp



Microscopic image of Short Stuff®



Polyolefin Cut Fibers

## Physical Properties of SHORT STUFF® Synthetic Pulps

Hydrophobic Grades	ESS5F	ESS2F	E380F	E400F	NA	E780F	E990F	Y600F
Hydrophilic Grades	ESS50F	NA	NA	NA	E505F	NA	NA	NA
<b>Classified Fiber Length (CFL)</b> Expressed in millimeters (mm)	0.1	0.6	0.55~0.8	0.75~1.05	0.8~1.1	1.3~2.0	1.8~2.3	1.1
<b>Fiber Diameter</b> Expressed in microns ( $\mu$ )	5	5	15	15	15	25	20	30
<b>Surface Area</b> ( $m^2/gm$ ) Measured by gas absorption	12	12	8	8	8	8	8	5
<b>Bulking Value</b>	Gallons per Lb	0.1250~0.1319						0.132
	Lbs per Gallon	7.580~7.997						7.590
<b>Specific Gravity</b> ( $g/cm^3$ )	0.96						0.91	
<b>Melting Point</b> ( $^{\circ}F$ )	257~277						~320	
<b>Moisture Content</b> (%)	Less than 2.0						<2.0	

Short Stuff® fibrillated synthetic pulps are available only from

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