SHORT STUFF®
Highly Fibrillated HDPE Fibers
Advantages of SHORT STUFF® Fibers

- Improves suspension of pigments and fillers
- Improves water resistance
- Improves flexibility, reducing cracking
- Improves sag resistance
- Predictable shear thinning rheology
- Reduces minimum film formation temperature
- Does not absorb water or binders
- Can provide texture
- Durable fibers stand up to high shear dispersion without degrading

Shipped in multi-walled kraft bags.

SHORT STUFF® fluffed and dried High Density Polyethylene (HDPE) fibers are a unique form of fibrillated polyolefin pulps, which have properties that offer many advantages over mineral fibers.

Variety of Applications

SHORT STUFF® fibrillated HDPE fibers can be used in roof coatings, block fillers, stucco, cultured marble, adhesives, textured coatings, cement coatings, putties, mastics, industrial coatings, caulks, sealants, and more!

Efficiency

Because of their low density, only small percentages of SHORT STUFF® fibrillated HPDE fibers are required. Normally 1% by weight or less is all that is necessary.
Improves Filler Suspension

Improves Ductility

Additive: HEC (0.1%) Diameter of Mandrel: 10 mm

Additive: HEC (0.1%) & FDSS-50 (1%)
Diameter of Mandrel: 6 mm

Improves Binder Coalescence

Shear Thinning Rheology

MFFT
Minimum Film Formation Temperature

[Graph showing MFFT for different conditions]

[Graph showing shear thinning rheology for different shear rates]
Physical Properties of SHORT STUFF® HDPE Fibers

<table>
<thead>
<tr>
<th>Grade</th>
<th>ESS5F</th>
<th>ESS50F*</th>
<th>ESS2F</th>
<th>E380F</th>
<th>E505F*</th>
<th>E780F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Fiber Length &lt;br&gt;Expressed in millimeters (mm)</td>
<td>~0.1</td>
<td>~0.1</td>
<td>~0.6</td>
<td>~0.7</td>
<td>~0.9</td>
<td>~1.6</td>
</tr>
<tr>
<td>Fiber Diameter &lt;br&gt;Expressed in microns</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>25</td>
</tr>
<tr>
<td>Surface Area (m²/gm) &lt;br&gt;Measured by gas absorption</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

* Selected grades for improved dispersion in aqueous systems.

- Melting Point: ~135°C / ~275°F
- Moisture Content (%): <2.0
- Specific Gravity (g/cm³): 0.96

SHORT STUFF® fibrillated HDPE fibers are available only from

**MINIFIBERS, INC.**

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