Additives for Bulk Molding Compounds (BMC) and Thick Molding Compounds (TMC)
Wetting and Dispersing Additives

Incorporation of fillers increases paste viscosity. BYK wetting and dispersing additives facilitate the incorporation of fillers and lower paste viscosity. As a result, higher filler loading is possible. Lower viscosity improves and speeds up the wetting of the glass fibers.

The Wetting and Dispersing Process

- 1 Wetting
- 2 Dispersing
- 3 Stabilizing

Application Fields and Dosages

<table>
<thead>
<tr>
<th>Material</th>
<th>Viscosity stabilization</th>
<th>Low emission</th>
<th>Class A</th>
<th>LP</th>
<th>LS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BYK-W 995</td>
<td>0.2-0.5%</td>
<td></td>
<td>0.2-1%</td>
<td>0.2-1%</td>
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<tr>
<td>BYK-W 996</td>
<td>0.2-0.5%</td>
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</tr>
<tr>
<td>BYK-W 9010</td>
<td>0.1-0.3%</td>
<td>0.1-0.5%</td>
<td>0.1-0.5%</td>
<td>0.1-0.5%</td>
<td>0.1-0.5%</td>
</tr>
<tr>
<td>BYK-W 9011</td>
<td>0.1-0.3%</td>
<td>0.1-0.5%</td>
<td>0.1-0.5%</td>
<td>0.1-0.5%</td>
<td>0.1-0.5%</td>
</tr>
</tbody>
</table>

% based on filler
**Anti-Separation Additives**

LS or LP additives such as PS or SBS are incompatible with the UP resin and can cause phase separation in the paste. The use of BYK additives helps to compatibilize both phases and stabilize the paste during storage and processing.

**UP & LS-Resin with Filler and Pigment**

<table>
<thead>
<tr>
<th>Anti-Separation Additives</th>
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</thead>
<tbody>
<tr>
<td>BYK-9076</td>
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<tr>
<td>0.3-1 phr</td>
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<tr>
<td>BYK-W 972</td>
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<tr>
<td>0.5-1 phr</td>
</tr>
<tr>
<td>BYK-W 974</td>
</tr>
<tr>
<td>0.3-1 phr</td>
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</table>

**Processing Additives**

To prevent fogging in head lamps or lamp housing, and to improve pigmentability in LS-formulations, processing additives are used.

**Fogging**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>LS</td>
</tr>
<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>BYK-P 9050</td>
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<tr>
<td>BYK-P 9051</td>
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<td>BYK-P 9060</td>
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<tr>
<td>BYK-P 9065</td>
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<tr>
<td>BYK-P 9080</td>
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</tbody>
</table>
Products and Applications

BYK Additives

Product Range Additives:
• Additives to improve surface slip, leveling and substrate wetting
• Adhesion promoters
• Defoamers and air release agents
• Foam stabilizers
• Processing additives
• Rheological additives
• UV-absorbers
• Viscosity depressants
• Waxes
• Wetting and dispersing additives for pigments and extenders

BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com/additives

Application Areas:

Coatings Industry
• Architectural Coatings
• Automotive Coatings
• Industrial Coatings
• Can Coatings
• Coil Coatings
• Wood & Furniture Coatings
• Powder Coatings
• Leather Finishes
• Protective & Marine Coatings

Plastics Industry
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• PVC Plastisols
• SMC/BMC
• Thermoplastics

PUR Industry
• C.A.S.E. Applications
• PUR Foams

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BYK-Gardner GmbH
P.O. Box 970
82534 Geretsried
Germany
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Fax +49 8171 3493-140
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www.byk.com/instruments

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• Impregnation
• Coatings

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Construction Chemicals

Pigment Concentrates

Raw Materials for Manufacturing of Release Agents

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