

Substance for Success.



Product Guide CM-PG 2

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

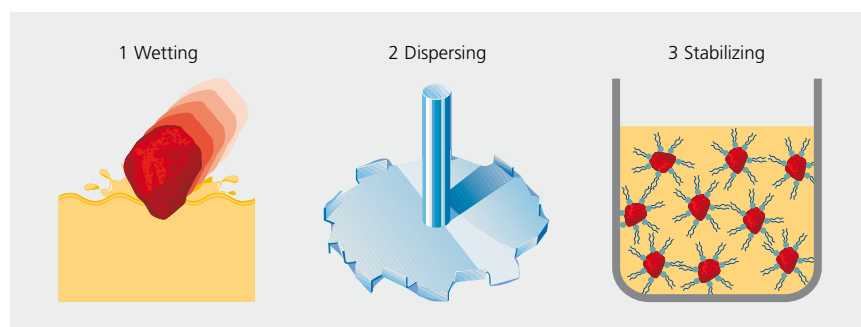
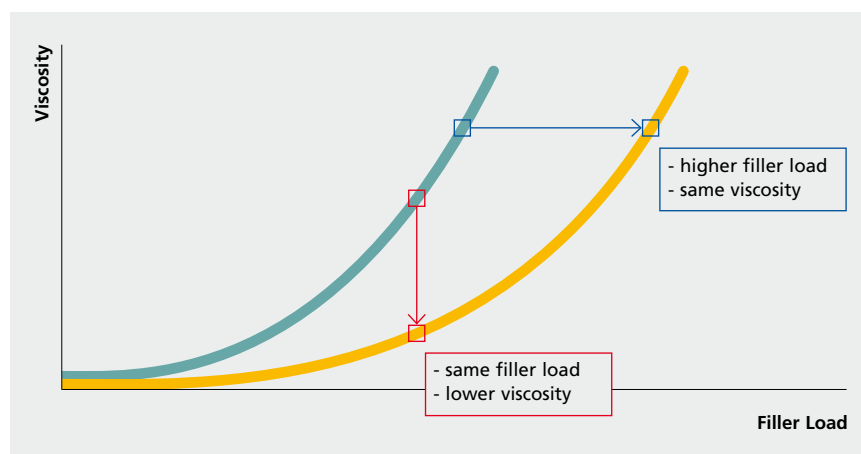


figure 1

Lower Viscosity, Higher Filler Load



■ without additive ■ with additive

figure 2

Application Fields and Dosages

	Viscosity stabilization	Low emission	Class A	LP	LS
BYK-W 995	0.2-0.5%		0.2-1%	0.2-1%	0.2-1%
BYK-W 996	0.2-0.5%		0.2-1%	0.2-1%	0.2-1%
BYK-W 9010	0.1-0.3%	0.1-0.5%	0.1-0.5%	0.1-0.5%	0.1-0.5%
BYK-W 9011	0.1-0.3%	0.1-0.5%	0.1-0.5%	0.1-0.5%	0.1-0.5%

% based on filler

figure 3

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



figure 4

Anti-Separation Additives

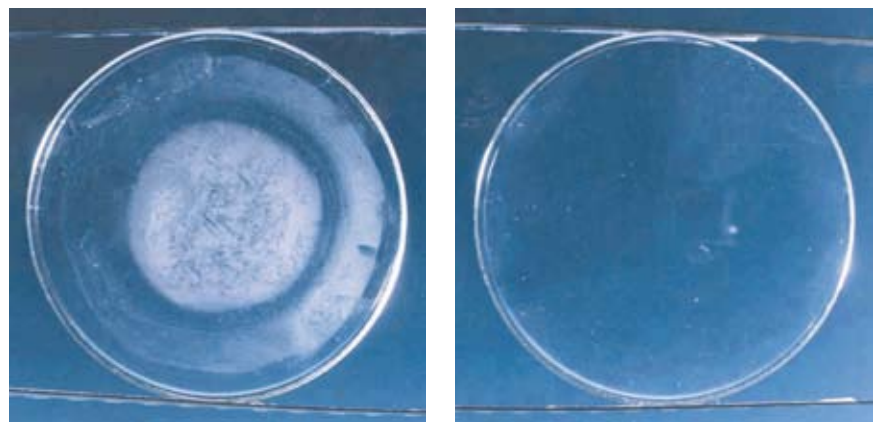
	LS
BYK-9076	0.3-1 phr
BYK-W 972	0.5-1 phr
BYK-W 974	0.3-1 phr

figure 5

Processing Additives

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

Fogging

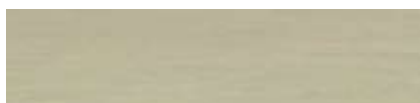


Without additive

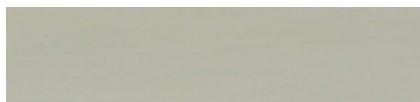
With BYK-P 9051

figure 7

Pigmentation



Without processing additive



With BYK-P 9060 or BYK-P 9065

figure 6

Application Fields and Dosages

	LS	Head lamp	LP Class A
BYK-P 9050		3-4 phr	
BYK-P 9051		3-4 phr	
BYK-P 9060	3-4 phr		
BYK-P 9065	2-2.5 phr		
BYK-P 9080			4-5 phr

figure 8

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

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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

- Ambient Curing Systems
- PVC Plastics
- SMC/BMC
- Thermoplastics

PUR Industry

- C.A.S.E. Applications
- PUR Foams

Printing Ink Industry

- Flexo Inks
- Gravure Inks
- Silk Screen Inks
- Offset Inks
- Overprint Varnishes

Paper Coatings

- Impregnation
- Coatings

Adhesives & Sealants

Construction Chemicals

Pigment Concentrates

Raw Materials for Manufacturing of Release Agents

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