Technical Information B-RI 11

OPTIBENT

Phyllosilicates for Dry Mix Building Product
Products and Applications

OPTIBENT Additives for the efficient and consistent control of plasters, mortars, screeds and adhesives.

Plasters and Mortars:
• Increased sag control
• Improved workability
• Easier to pump
• Reduced sticking
• No impact on cement hydration

Tile Adhesives:
• Longer open times
• Increased sag resistance
• No negative impact on cement hydration

Screeds/self-leveling Compounds:
• Decreased sedimentation
• Improved flow
• Homogenous structure

Stucco/EIFS Adhesives:
• Improved handling
• Longer open times

<table>
<thead>
<tr>
<th>OPTIBENT Additives</th>
<th>Optigel Additives</th>
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<tbody>
<tr>
<td>MF 541 602 940 987 1008 1056 1248 6042 MM WM WX WA NT10*</td>
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</table>

Dry/mix Mortars
Plaster/anhydrite-based Systems

Drywall mounts  ■
Plasters/light-weight plasters  ■
Thin-set plaster  ■
Screeds  ■
Spackling compounds  □

Lime-cement-based Systems

Lime-cement renders  ■
Light-weight lime-cement renders  ■

Cement-based Systems

Self-leveling compounds  ■
Reinforcement mortars  ■
Concrete restoration  ■
Water-proofing slurries  ■
Screeds  ■
Tile adhesives (cement-based)  ■
Grout/joint compounds  ■
Stucco  ■
Light-weight renders  ■
Masonry mortars/light-weight masonry m.  ■
Adhesives for concrete precision blocks  ■
Repair mortars  ■
Restoration renders  ■
Sub-plasters  ■
Block fillers  ■
EIFS/adhesives/reinforcement mortars  ■

Paste Systems
Latex Plasters

Synthetic resin plasters/latex plasters  ■
Silicon resin plasters  ■
Silicate plasters  ■

Miscellaneous Applications

Latex tile adhesives  □
Latex spackling compounds  ■

■ especially recommended  □ recommended

*) A separate OPTIBENT NT10 brochure is available on request.
OPTIBENT – Product Overview

OPTIBENT products – rheological additives based on laminar silicates – have been specially developed to meet the demands of dry-mix mortars and paste systems. These products make it possible to influence and control such specific properties as viscosity, yield point (stability), and workability. We offer products for a variety of uses and applications: OPTIBENT products are suitable for use in all mineral-based systems such as adhesives, reinforcement mortars, plasters and screeds. For latex-based systems, we also recommend our OPTIGEL series.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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<tr>
<td>OPTIBENT MF</td>
<td>Standard product, low viscosity; specially suited for screeds (cement or gypsum-based); excellent stability with cement</td>
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<tr>
<td>OPTIBENT 541</td>
<td>Wall plasters and reinforcement mortars; increases open time in systems based on white cement; disperses well</td>
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<tr>
<td>OPTIBENT 602</td>
<td>Standard product for mineral-based tile adhesives and renders; Content of water retention aid may be reduced, increases sag resistance Gypsum-based plasters; improved smoothness, compensates for variations in plaster quality</td>
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<tr>
<td>OPTIBENT 940</td>
<td>Smoothing mortars and self-leveling compounds; excellent flow characteristics and anti-settling properties</td>
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<td>OPTIBENT 987</td>
<td>Grout and spackling compounds, latex tile adhesives; can be used as an anti-settling agent in anhydrite screeds in order to reduce syneresis</td>
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<tr>
<td>OPTIBENT 1008</td>
<td>Basecoat plasters, EIFS adhesives; excellent stability and superior workability</td>
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<tr>
<td>OPTIBENT 1056</td>
<td>Tile adhesives, adhesives for concrete precision blocks, repair mortars; excellent stability and workability</td>
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<tr>
<td>OPTIBENT 1248</td>
<td>Stucco, EIFS adhesives/reinforcement mortars; excellent workability, increased open times</td>
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<tr>
<td>OPTIBENT 6018</td>
<td>Putties, jointing compounds and ready-to-use systems; extremely fine and whitish Pyllosilicate to optimize the sieve contribution; positive effect on workability and anti-sagging performance</td>
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<tr>
<td>OPTIBENT 6042</td>
<td>Tile adhesives; excellent workability, increased open time</td>
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<td>OPTIGEL Series</td>
<td>Latex-based tile adhesives, spackling compounds, spray plasters OPTIGEL WM: High degree of thickening, increased water retention OPTIGEL WX: High yield point OPTIGEL LX: Excellent thickening properties and water retention OPTIGEL WA: High degree of thickening, excellent workability and stability</td>
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<tr>
<td>LAPONITE SL25</td>
<td>Excellent thixotropic and thickening properties, excellent workability and stability, easy to incorporate (ready-to-use solution)</td>
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<tr>
<td>OPTIBENT NT10</td>
<td>Phyllosilicate for water and stain restistance. Information available upon request.</td>
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Cementitious Water-proofing

Joint Fillers for Gypsum Boards

Spray Plaster

EIFS Adhesives, Reinforcement Renders

Exterior Render, Latex Plaster, Top Coat
Products and Applications

BYK Additives

Product Range Additives:

- Additives to improve surface slip, leveling, and substrate wetting
- Adhesion promoters
- Defoamers and air release agents
- Processing additives
- Rheological additives
- UV absorbers
- Viscosity depressants
- Wax additives
- Wetting and dispersing additives for pigments and extenders

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BYK 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
- Ambient Curing Systems
- PVC Plastisols
- SMC/BMC
- Thermoplastics

Printing Ink Industry
- Flexo Inks
- Gravure Inks
- Inkjet Inks
- Silk Screen Inks
- Offset Inks
- Overprint Varnishes

Paper Coatings
- Impregnation
- Coatings

Adhesives & Sealants

Construction Chemicals

Pigment Concentrates

Raw Materials for Manufacturing
Release Agents

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