



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

OPTIBENT Additives										Optigel Additives				OPTIBENT NT10*
MF	541	602	940	987	1008	1056	1248	6042	WM	WM	WX	WA		

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.

figure 1

OPTIBENT – Product Overview

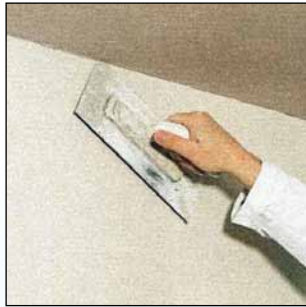
OPTIBENT products – rheological additives based on laminar silicates – have been specially developed to meet the demands of dry-mix mortars and paste systems. These products make it

possible to influence and control such specific properties such as viscosity, yield point (stability), and workability. We offer products for a variety of uses and applications: OPTIBENT products are

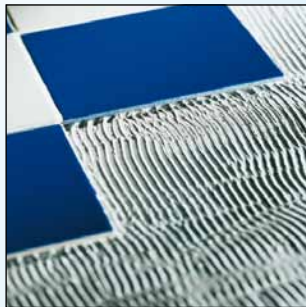
suitable for use in all mineral-based systems such as adhesives, reinforcement mortars, plasters and screeds. For latex-based systems, we also recommend our OPTIGEL series.

OPTIBENT MF	Standard product, low viscosity; specially suited for screeds (cement or gypsum-based); excellent stability with cement
OPTIBENT 541	Wall plasters and reinforcement mortars; increases open time in systems based on white cement; disperses well
OPTIBENT 602	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
OPTIBENT 940	Smoothing mortars and self-leveling compounds; excellent flow characteristics and anti-settling properties
OPTIBENT 987	Grout and spackling compounds, latex tile adhesives; can be used as an anti-settling agent in anhydrite screeds in order to reduce syneresis
OPTIBENT 1008	Basecoat plasters, EIFS adhesives; excellent stability and superior workability
OPTIBENT 1056	Tile adhesives, adhesives for concrete precision blocks, repair mortars; excellent stability and workability
OPTIBENT 1248	Stucco, EIFS adhesives/reinforcement mortars; excellent workability, increased open times
OPTIBENT 6018	Putties, jointing compounds and ready-to-use systems; extremely fine and whitish Pyllsilicate to optimize the sieve contribution; positive effect on workability and anti-sagging performance
OPTIBENT 6042	Tile adhesives; excellent workability, increased open time
OPTIGEL Series	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
LAPONITE SL25	Excellent thixotropic and thickening properties, excellent workability and stability, easy to incorporate (ready-to-use solution)
OPTIBENT NT10	Phyllosilicate for water and stain resistance. Information available upon request.

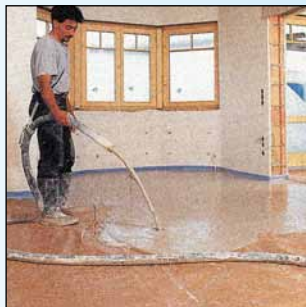
Gypsum and Lime-Cement Plaster



Tile Adhesives



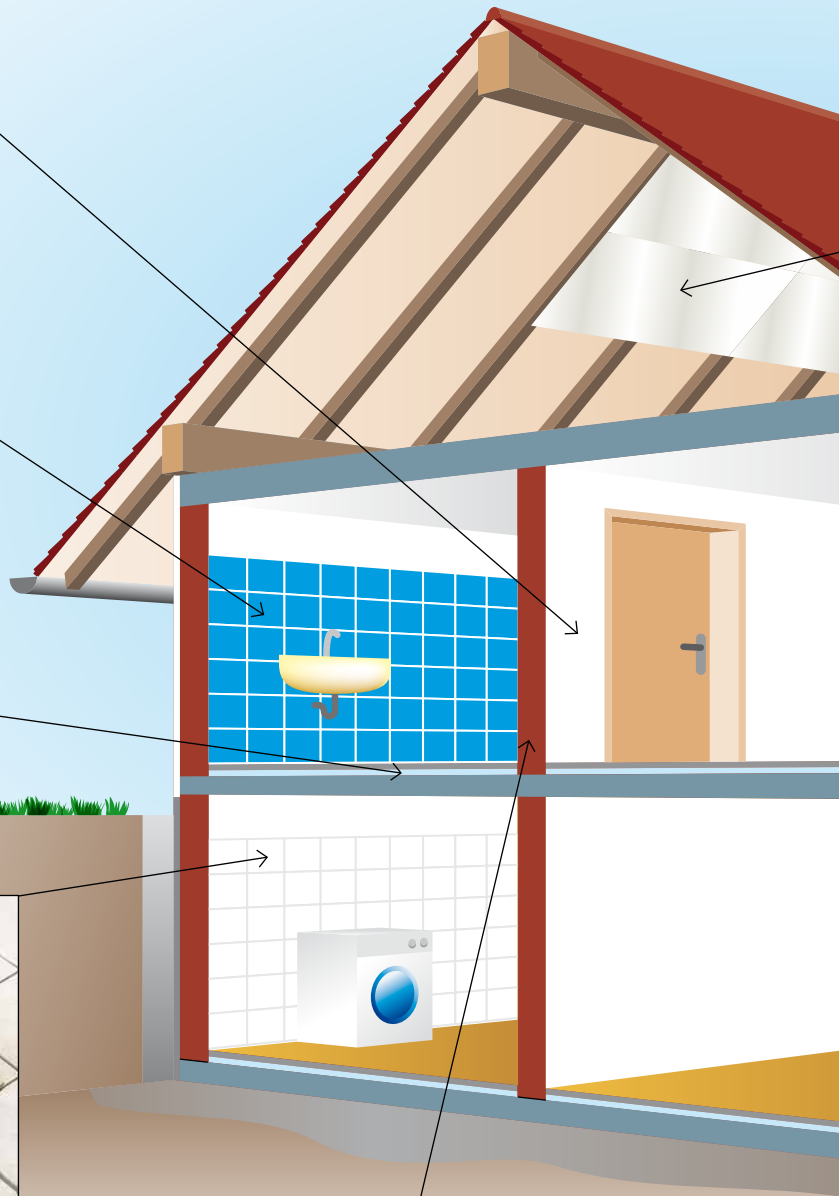
Screeds and Self-levelling Compounds

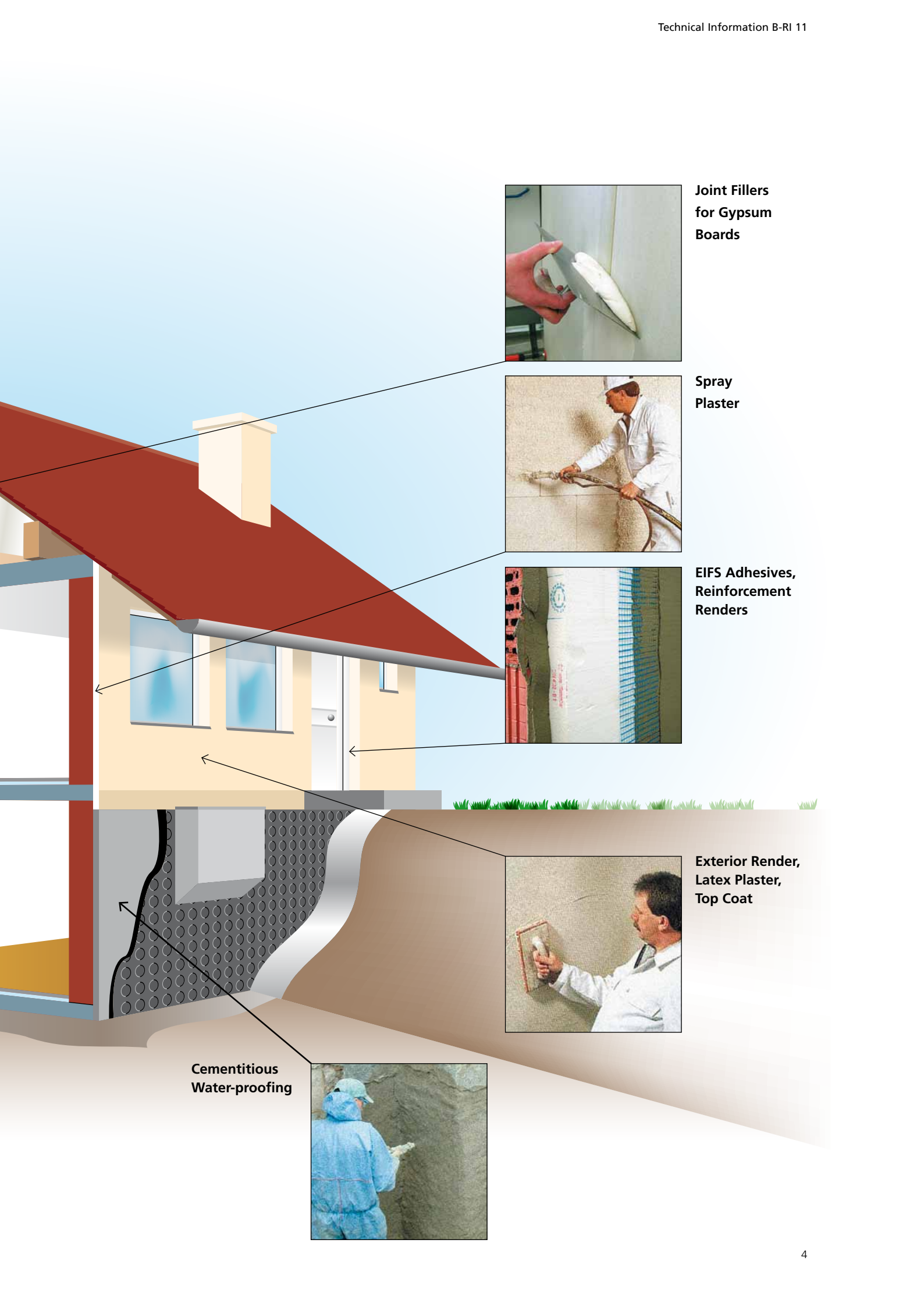


Grouts

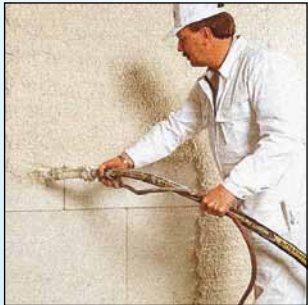


Masonry Mortar





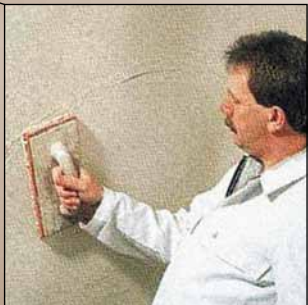
**Joint Fillers
for Gypsum
Boards**



**Spray
Plaster**



**EIFS Adhesives,
Reinforcement
Renders**



**Exterior Render,
Latex Plaster,
Top Coat**

**Cementitious
Water-proofing**



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

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

- Ambient Curing Systems
- PVC Plastics
- 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

BYK Instruments

BYK offers a complete line of testing instruments to meet your needs in many application areas:

- Gloss/Appearance
- Color

Portable or stationary laboratory equipment – including easy-to-use quality control software.

BYK instruments – the complete solution for the coatings and plastics industry.

BYK-Gardner GmbH

P.O. Box 970
82534 Geretsried
Germany
Tel +49 8171 3493-0
+49 800 427-3637
Fax +49 8171 3493-140

info.byk.gardner@altana.com

www.byk.com/instruments

ACTAL®, ADJUST-4®, ADVITROL®, BENTOLITE®, CLAYTONE®, CLOISITE®, COPISIL®, FULACOLOR®, FULCAT®, FULGEL®, FULMONT®, GARAMITE®, GELWHITE®, LAPONITE®, MINERAL COLLOID®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PERMONT®, PURE THIX®, RHEOCIN®, RHEOTIX®, RIC-SYN®, SCP®, TIXOGEL®, Y25® are registered trademarks of BYK Additives.

ANTI-TERRA®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, DISPERBYK®, DISPERPLAST®, LACTIMON®, NANOBYPK®, PAPERBYK®, SILBYK®, VISCOBYK®, and Greenability® are registered trademarks of BYK-Chemie. AQUACER®, AQUAMAT®, AQUATIX®, CERACOL®, CERAFK®, CERAFLOUR®, CERAMAT®, CERATIX®, HORDAMER®, and MINERPOL® are registered trademarks of BYK-Cera.

SCONA® is a registered trademark of BYK Kometra.

This information is given to the best of our knowledge. Because of the multitude of formulations, production, and application conditions, all the above-mentioned statements have to be adjusted to the circumstances of the processor. No liabilities, including those for patent rights, can be derived from this fact for individual cases.

This issue replaces all previous versions – Printed in Germany