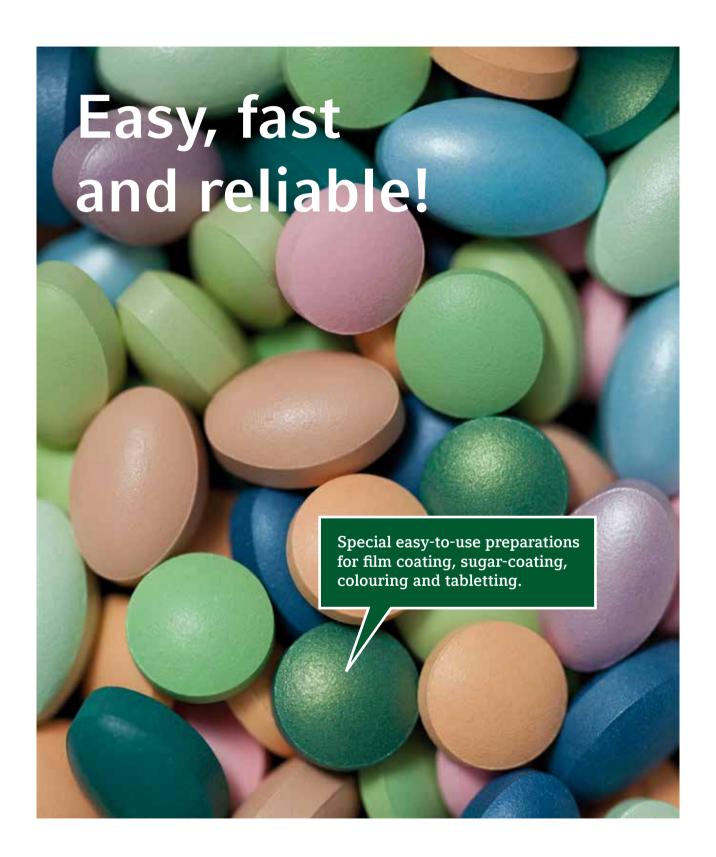
Product Overview





Easy, fast and reliable application with BIOGRUND products. Accelerated process times. We guarantee for quality and reproducibility.

BIOGRUND Film coating

Choose **BIOGRUND's** film coating products to improve the film coating of tablets, capsules, granules and pellets. The broadest range of polymers can be used to find the optimal tailor-made solution.

BIOGRUND Sugar-coating

To coat tablet cores with a liquid sugar-suspension has been known for decades. Choose **BIOGRUND's** sugar-coating products to improve and accelerate the sugar-coating process. The ready-to-use powder can be offered in the conventional version with sugar, or sugar-free with Isomalt.

BIOGRUND Tabletting

A hard tablet with low friability is a challenge for every producer of pharmaceutical or nutritional products. Choose **BIOGRUND's** pelletizing products to improve the production process. Free flowing binders, retard release formulations and pigment blends guarantee best results.

BIOGRUND Colouring

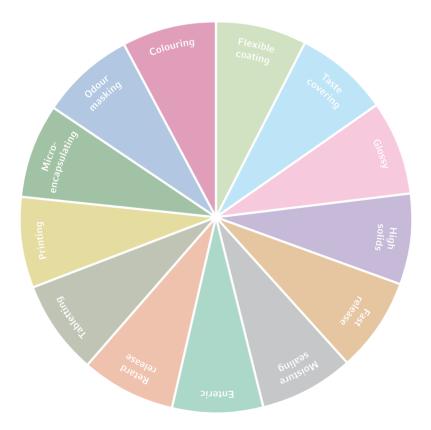
Colour makes the difference. Choose **BIOGRUND's** colouring products for a unique appearance of your products. Deagglomerated and homogeneous powder compounds or liquid dispersions provide always reproducible results.

BIOGRUND Excipients

BIOGRUND offers high quality excipients for the pharmaceutical and nutritional industry. Cellulose ethers are always on stock. Easy-to-use excipient mixtures (e.g. polishing/anti-sticking agents) complement our product portfolio. Please contact us for further details.

BIOGRUND's film coating products are one-step coating systems for pharmaceutical and nutritional applications. They always give best assistance with all film coating activities. The ready-to-use, dry powdered compounds are easily soluble in water or organic solvents. We guarantee high-quality film coating results that are always reproducible. Already solved powder compounds are also available as a ready-to-use suspension.

BIOGRUND products can be applied using conventional or modern coating equipment. All raw materials and compositions are developed to meet the official regulatory requirements of the user's country for pharmaceutical products and for nutritional or dietary supplements.



BIOGRUND Film coating

AquaPolish®

Fast soluble

Film forming polymers are HPMC, HPC and other selected cellulose ethers; aqueous or organic solvent application; for nutritional and pharmaceutical products.

AquaPolish® C

Contract manufacturing of your registered composition, in a ready-to-use film coating compound.

AquaPolish® E

Enteric, gastric juice resistant

Film forming polymer is a combination of selected polymethacrylate-copolymer with CMC; soluble >pH 5.5; aqueous or organic solvent application; for pharmaceutical products only.

AquaPolish® G

Glossy, fast soluble

Film forming polymers are HPMC, HPC and other selected cellulose ethers; aqueous application; for nutritional and pharmaceutical products; contains pearlescent pigments.

AquaPolish® HS

High solid content, high speed production

Film forming polymers are **METHOCEL™** Premium VLV and other selected cellulose ethers; aqueous or organic solvent application; for nutritional and pharmaceutical products.

AquaPolish® ME

Microencapsulation

Microencapsulating polymer is a selected modified starch; for actives, flavours, oils, etc.; aqueous application; for nutritional and pharmaceutical products.

AquaPolish® MS

Moisture sealing, fast soluble

Film forming polymers are HPMC, HPC and other selected cellulose ethers with hydrophobic additives; aqueous or organic solvent application; for nutritional and pharmaceutical products.

AquaPolish® OM

Odour masking

Film forming polymers are HPMC, HPC and other selected cellulose ethers with odour masking additives; aqueous or organic solvent application; for nutritional and pharmaceutical products.

AquaPolish® PVA

Moisture sealing, flexible

Film forming polymers are PVA and HPC; aqueous application; for nutritional and pharmaceutical products.

AquaPolish® R

Retard release

Film forming polymer is a selected ethyl cellulose with pore formers; or Ammonio Methacrylate Copolymers (Type A, Type B); film is insoluble in body fluid; organic solvent application; for nutritional and pharmaceutical products.

AguaPolish® STA

High solid content, fast application, fast soluble

Film forming polymer is a selected modified starch; aqueous application; for nutritional and pharmaceutical products.

AquaPolish® TC

Taste covering

Film forming polymers are HPMC, HPC and other selected cellulose ethers with taste masking additives; aqueous or organic solvent application; for nutritional and pharmaceutical products.

BonuLac[®]

Enteric, gastric juice resistant, moisture sealing

Film forming polymer is natural shellac; dry powder; soluble in hot water; gastric juice resistant (>5% weight gain, soluble >pH 6.0); aqueous application; for pharmaceutical products and first choice for nutritional supplements.

BonuWet®

Liquid coating system

AquaPolish® formulas already solved in aqueous or organic suspension; for an efficient production process and shorter preparation times; for nutritional and pharmaceutical products.

NutraPolish®

Fast soluble, efficient

Film forming polymers are HPMC, HPC or other polymers; aqueous or organic solvent application; for nutritional supplements only.

BIOGRUND Sugar-coating

IsuPolish®

Sugar-free sugar-coating

Ready-to-use compound; based on Isomalt, pigments and other selected excipients; providing sugar-free and accelerated process; first choice for smooth and glossy appearance; for nutritional and pharmaceutical products.

IsuPolish® G

Sugar-free sugar-coating, glossy

Ready-to-use compound; based on Isomalt, mineral and non-artifical Candurin® pearl effect colours and additional excipients; high aesthetic value; providing sugar-free and accelerated process; for nutritional and pharmaceutical products.

BIOGRUND Tabletting

IsuPolish® FSC

Film-sugar-coating

Ready-to-use powder blend; based on Hypromellose, Isomalt or sucrose, pigments and additional excipients; high speed application by using a continuous spray process; provides excellent taste and odour masking characteristics as well as moisture sealing capacities; aesthetic appearance for nutritional and pharmaceutical products.

IsuPolish® S

Conventional sugar-coating

Ready-to-use compound; based on saccharose, pigments and other selected excipients; first choice for smooth and glossy appearance; for nutritional and pharmaceutical products.

BonuTab®

Complete tablet formulation

Customized dry powder compound contains e.g. fillers, binders, lubricants, pigments and dyes; for nutritional and pharmaceutical products.

CompactCel®

Free flowing binder granulate

Granulated, homogeneous dry composition of HPC/CMC, PVP/CMC or low viscous HPC/HPMC; an excellent, free flowing binder for nutritional and pharmaceutical tabletting.

CompactCel® LUB

Dry binder and lubricant

One-step binding agent; the homogeneous powder compound combines the properties of a dry binder like HPC or MCC and a lubricant e.g. oil and/or wax plus vegetable rice extract. Depending on your needs formulations can also be combined with other binding polymers and lubricants.

CompactCel® MAB

Moisture absorbent dry binder

Homogeneous dry composition of different moisture absorbent material combinations like silicon dioxide, calcium carbonate, MCC and/or talc. This product is also available with only natural based materials like calcium carbonate/ MCC or cellulose fibers and vegetable rice concentrate; micronized; prevents clumping and acts loosening in the tablet mass.

CompactCel® SIL

Free flowing binder granulate

Granulated, homogeneous dry composition of silicon dioxide and HPC/CMC or PVP/CMC; free flowing binder for nutritional and pharma-ceutical tabletting.

CompactCel® TC

Taste covering dry binder

Neutralising binding agent for bad tasting actives; homogeneous powder compound of several sugar based materials and/or sweeteners in combination with taste covering materials like polymers and/or beta-cyclodextrin plus cellulose fibers. This product is also available with only natural based materials like sugars and/or stevia plus natural polymers and cellulose fibers; conceals undesired tastes in the tablet mass.

RetardCel® HPMC/CMC

Fine, homogeneous dry composition of HPMC and CMC; micronized; special properties for retardation and controlled release; for nutritional and pharmaceutical tabletting.

BIOGRUND Colouring

BonuPrint®

Fine, homogeneous, liquid pigment dispersion with natural shellac; for printing on nutritional and pharmaceutical products.

BonuTone®

Fine, homogeneous, liquid pigment dispersion for colouring solid and viscous products, such as creams, gels, sugar-coating, polymer dispersions, chewing qum, etc.

TopMill®

Fine, homogeneous dry powdered milling of pigments to simplify colouring of all kinds of products.

TopMill® G Pearlescent, glossy

Fine, homogeneous dry powdered milling of pearlescent pigments to simplify colouring of all kinds of products.

BIOGRUND Excipients

BonuCel®

Cellulose ethers

Fine, homogeneous blends of selected cellulose ethers to achieve desired properties (i.e. viscosity, retarded and controlled release, etc.); for nutritional and pharmaceutical products.

BonuWax®

Polishing/Anti-sticking agent

Fine, homogeneous mixture of bee wax and carnauba wax. Polishing agent for a shiny surface of sugarcoated tablets. Excellent glossy finishing. For soft gelatine capsules it is formulated with different natural waxes: highly stable to provide excellent transparency, anti-sticking properties (effective separation) and enhanced mechanical stability/flowability during processing and packaging. Waxed capsules have higher resistance to external influences (humidity. temperature) and are easier to swallow.





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