

# Product Overview

Easy, fast  
and reliable!

Special easy-to-use preparations  
for film coating, sugar-coating,  
colouring and tableting. Tailor-  
made formulated.

**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.

Our innovative ready-to-use products are tailor-made formulated for your needs. We always keep an eye on current industry issues and trends (such as regulatory changes, use of pigments, natural ingredients, certifications).

**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.



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

## 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.

## **AquaPolish® 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® Organic**

### **Fast soluble, clear coating, organic certified**

For an improvement in appearance and finish of nutritional supplements (such as extracts, minerals or vitamins). Simple and fast aqueous application. Certified with EU-label for organic food.



DE-ÖKO-039

# 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-artificial 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®**

### **Dry binder granulate**

Granulated, homogeneous dry composition of HPC/CMC, PVP/CMC or low viscous HPC/HPMC; an excellent, free flowing binder for direct compression; increases the hardness and improves the friability of the tablet; 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; superior adsorptive capacity; free flowing binder for nutritional and pharmaceutical tabletting (direct compression).

## **CompactCel® FLO**

### **For better flowability**

Separating agent which loosens up the tablet mass powder and improves the flowability. Premix of different rice additives and phosphate, without silicon dioxide; for nutritional products.

## 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 tableting.

## 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 gum, 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/Antisticking agent/ Hot melt coating

*For polishing:* Fine, homogeneous mixture of bee wax and carnauba wax. Polishing agent for a shiny surface of sugar-coated tablets. Excellent glossy finishing.

*For anti-sticking:* For soft gelatine capsules, BonuWax® provides high stable anti-sticking properties (effective separation) with excellent transparency and enhanced mechanical stability/flowability during processing and packaging.

*For hot melt coating:* The ready-to-use excipient premix for hot melt coating is a water & solvent free application and provides good moisture sealing, taste masking and stability for granules and particles.



**BIOGRUND** GmbH  
Neukirchner Str. 5  
65510 Huenstetten  
Germany

T +49 (0) 6126-952 63-0  
F +49 (0) 6126-952 63-33

**BIOGRUND** US, Inc.  
23465 Rock Haven Way  
Unit 125  
Sterling, VA 20166  
USA

T +1 (703) 665-2147  
F +1 (703) 665-2148

**BIOGRUND** International AG  
Beim Bahnhof 5  
6312 Steinhausen  
Switzerland

T +41 (0) 41-747 14-50  
F +41 (0) 41-747 14-55

[www.biogrund.com](http://www.biogrund.com)  
[info@biogrund.com](mailto:info@biogrund.com)