

# Product Overview

Easy, fast  
and reliable!

Excellent excipient premixes  
for film coating, sugar-coating,  
coloring and tableting. Tailor-  
made & ready-to-use.

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

## 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.

## 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.

## Tableting

## Encapsulation

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, sustained release formulations, lubricants and fully formulated tableting/encapsulation premixes guarantee best results. For filling and closing of hard gelatin capsules excellent lubricants are available to achieve a smooth filling process.

## Coloring

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

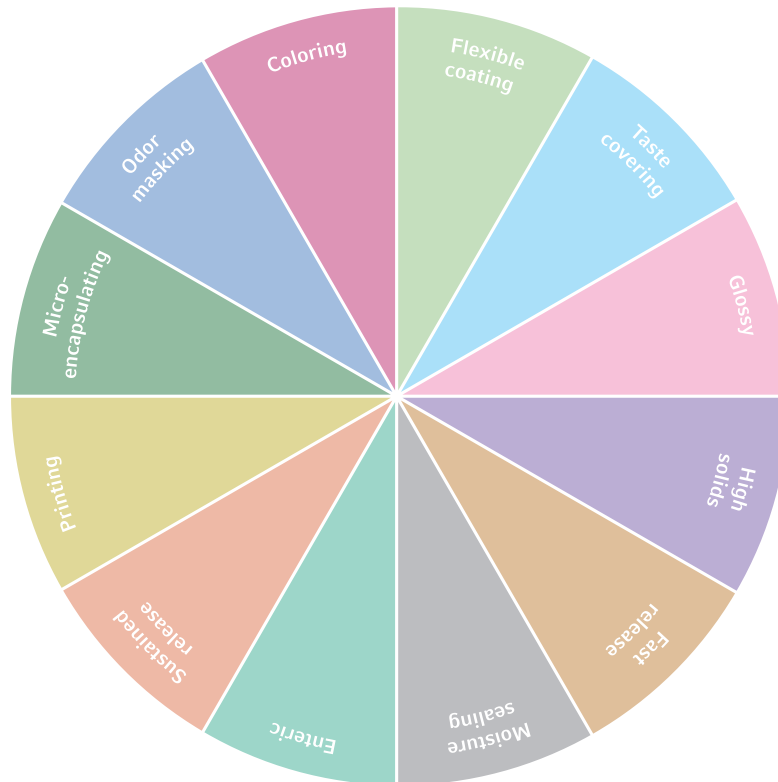
## Excipients

**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.

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, clean label).

**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.



## Film Coating

### **AquaPolish®**

Fast soluble

Film forming polymers are HPMC, HPC and other selected cellulose ethers; aqueous or organic solvent application. Customized formulation with synthetic or natural colors. Available without titanium dioxide.

Quality: P | F \*

### **AquaPolish® C**

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

Quality: P | F \*

### **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.

Quality: P \*

### **AquaPolish® G**

Glossy, fast soluble

Film forming polymers are HPMC, HPC and other selected cellulose ethers; aqueous application; contains pearlescent pigments for a high aesthetic value of your product.

Quality: P | F \*

### **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.

Quality: P | F \*

### **AquaPolish® ME**

Microencapsulation

Microencapsulating polymer is a selected modified starch; for actives, flavors, oils, etc.; aqueous application.

Quality: P | F \*

### **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.

Quality: P | F \*

### **AquaPolish® OM**

Odor masking

Film forming polymers are HPMC, HPC and other selected cellulose ethers with odor masking additives; aqueous or organic solvent application.

Quality: P | F \*

### **AquaPolish® PVA**

Flexible, fast soluble

Film forming polymers are PVA and HPC; aqueous application.

Quality: P | F \*

### **AquaPolish® PRO**

Flexible, moisture barrier

Immediate release film coating with moisture barrier effect to prevent solid dosage forms from taking up humidity. Highly flexible. For a smooth tablet surface and a cost efficient manufacturing process.

Quality: P | F \*

### **AquaPolish® SR**

Sustained release

Film forming polymer is a selected ethyl cellulose with pore formers; or Ammonio Methacrylate Copolymers (Type A, Type B); film with sustained release function is insoluble in body fluid; organic solvent application.

Quality: P | F \*

## Sugar-coating

### **AquaPolish® STA**

High solid content,  
fast application, fast soluble

Film forming polymer is a  
selected modified starch;  
aqueous application.

Quality: P | F \*

### **AquaPolish® TC**

Taste covering

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

Quality: P | F \*

### **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.

Quality: P | F \*

### **BonuWet®**

Liquid coating system

AquaPolish® formulas already  
solved in aqueous or organic  
suspension; for an efficient pro-  
duction process and shorter  
preparation times.

Quality: P | F \*

### **NutraPolish® Organic**

Fast soluble, clear coating,  
organic certified

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

Quality: F \*



### **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.

Quality: P | F \*

### **IsuPolish® G**

Sugar-free sugar-coating, glossy

Ready-to-use compound; based on  
Isomalt, mineral and non-artificial  
Candurin® pearl effect colors and  
additional excipients; high aesthetic  
value; providing sugar-free and  
accelerated process.

Quality: P | F \*

### **IsuPolish® FSC**

Film-sugar-coating

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

Quality: P | F \*

### **IsuPolish® S**

Conventional sugar-coating

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

Quality: P | F \*

## Tableting

## Encapsulation

### CompactCel®

Dry binder

Granulated, homogeneous dry composition. Excellent for direct compression. Consists of various celluloses. Increases the hardness and improves friability of the tablet.

Quality: P | F \*

### CompactCel® natural

Dry binder

Dry binder premix for direct compression. Based on fine selected natural ingredients. It supports clean label strategies for nutritional products (e.g. HPC or PVP replacement).

Quality: F \*

### CompactCel® organic

Dry binder

The natural dry binder composition for direct compression. Based on fine selected natural ingredients. It supports clean label strategies for nutritional products. Certified with the EU- and US-label for organic food.

Quality: F \*



DE-ÖKO-039



### CompactCel® SIL

Dry binder

Granulated, homogeneous dry binder premix for direct compression. Additionally it provides flowing aid (glidant) properties and superior adsorptive capacity.

Quality: P | F \*

### CompactCel® DIS

Disintegrant  
natural/organic

Based on natural and/or certified organic ingredients, this disintegrant premix for direct compression can be used for replacing synthetic excipients like crosslinked polymers, crosscarmellose sodium or sodium starch glycolate. It is suited for the use in tablet, capsule and granule formulations. To correspond to the requirements of a fast release dosage form, CompactCel® DIS enables a rapid break-up of solid oral dosage forms when they come into contact with moisture.

Quality: F\*



### CompactCel® LUB

Lubricant

The premix decreases friction at the interface between tablet and die wall, reduces wear on punches and prevents sticking to punch faces. Replaces magnesium stearate, which is often the cause of many problems in solid oral dosage forms. For the filling/closing of hard gel capsules it acts as an excellent lubricant to achieve a smooth filling process.

Compositions including only natural ingredients are also available (for clean label).

Quality: P | F \*

### CompactCel® FLO

Flow aid | glidant

Separating agent which loosens up powder blends and improves the flowability. Prevents formation of bridge during flow from hopper and delays in feeding the powder to the tablet press or capsule filler. The excipient premix is free of silicon dioxide and therefore suitable for clean label products. Available in natural or organic food quality.

Quality: P | F \*



### CompactCel® MAB

Moisture/Oil absorbent

*Moisture absorbent:* Dry compound of additives for less problems due to humidity in the powder blend. Superior moisture absorbent properties to prevent clumping of the powder before and during the tableting or capsule filling process. Acts loosening and improves the flowability of the blend.

*Oil absorbent:* Dry compound of additives for oil absorbent. The high absorbent properties are used to make oily substances suitable for the tableting or capsule filling process. Prevents clumping of the powder oil blend.

Depending on project requirements CompactCel® MAB can be based on synthetic ingredients or natural/organic food raw materials (silica free, for clean label).

Quality: P | F \*



## Coloring

### CompactCel® TC

Taste covering

Neutralizing agent for bad tasting actives. The easy-to-use powder compound masks undesired tastes in the tablet mass and is an effective solution to neutralize poor tastes in uncoated tablets. Formulation components can be customized modified.

Quality: P | F \*

### CompactCel® SR

Sustained release

Specific cellulose premix to control the drug release from matrix tablets, pellets, granules. Several viscosities and particle sizes for different drug solubilities and loads are available.

Quality: P | F \*

### BonuTab®

Premixed tablet/encapsulation formulation

Excellent customized excipient premix. The fully formulated tableting/encapsulation compound exists of e.g. filler, binder, glidant, lubricant, pigment/dye. These ingredients contain the necessary characteristics to produce an effective and high-quality solid oral dosage form. Benefits: Easy handling and processing, economic savings and higher productivity because it's a ready-to-use tailor-made system.

Quality: P | F \*



### BonuPrint®

Printing ink

Fine, homogeneous, liquid pigment dispersion for solid oral dosage forms. For printing logos, brand names or barcodes onto the tablet.

Quality: P | F \*

### BonuTone®

Pigment dispersion

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

Quality: P | F \*

### TopMill®

Coloring agent

Fine, homogeneous dry powdered milling of pigments to simplify coloring of all kinds of products (Liquids/powders).

Quality: P | F \*

### TopMill® G

Pearlescent, coloring agent

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

Quality: P | F \*

## Excipients

### BonuCel®

Cellulose ethers

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

Quality: P | F \*

### 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.

Quality: P | F \*

### HME Cleaner Plus (GMP)

Hot melt extrusion

A purge compound for hot melt extrusion terminates difficulties to clean the extruder after processing.

Quality: P\*

## General Information on BIOGRUND

Since 1999, **BIOGRUND** has been the specialist for the homogeneous mixing of excipients and carriers. With locations in Germany, Switzerland, America and Russia, we support the food supplement and pharmaceutical industry in the development, formulation and production of solid oral dosage forms. The tailor-made and ready-to-use special powder mixtures for film coating, sugar-coating, coloring and tableting enable optimum results in a short time. Easy, fast and reliable!

### Locations

#### EUROPE

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