

Press Release  
February 18, 2021

# Rethinking Hygiene!

**Wipf AG now offers its customers the option of coating flexible plastic packaging with the antimicrobial coating Lock 3. This reduces the germ load on bag surfaces by up to 99.99 %.**

**Hygienically clean packaging surfaces in the food, non-food, pet food and pharmaceutical sectors ensure greater safety for retailers and consumers in times of pandemic. Packaging films and bags from Wipf printed with Lock 3 set new hygiene standards here. Sales will initially start in Germany and Switzerland.**

Originally used for printing on paper and cardboard packaging, Lock 3 can now also be printed on film surfaces following extensive further development. Flexible packaging coated in this way is suitable for both dry and wet contents and can also be used in pasteurization and sterilization applications. The long-lasting self-disinfecting effect of the coating against bacteria and viruses also includes, for example, the group of coronaviruses and is equally effective on moist and dry surfaces.

## **Innovative hygiene technology**

The underlying technology is based on the principle of natural photocatalysis. In contrast to many other germ-reducing technologies, neither silver, biocides nor nanoparticles are used. Toxic or mutagenic components are completely avoided, and there is also no odor or aerosol formation, which otherwise occurs with hygiene technologies. No toxic chemicals are released into the environment and resistance is unknown.

## **Germ reduction through light and air**

The long-lasting antimicrobial effect of Lock 3 is based on its photodynamic effect: a patented molecule activates ambient oxygen through exposure to daylight or artificial light, which washes around and destroys the cell envelopes of the germs. In this way, they are quickly and continuously rendered harmless by up to 99.99 %. The higher the light intensity, the faster the germ-reducing effect.

The active principle has been tested against germs (viruses, bacteria) by independent institutes in accordance with ISO 21702 (mod.) and ISO 22196 (mod.).

## **For hygienically clean surfaces**

The self-germinating effect of Lock 3 significantly reduces the transfer of germs via the outside of the bag. This keeps products on the shelf and at home hygienically clean and can thus help to reduce the spread of bacteria and viruses. The current potential uses of antimicrobial packaging solutions are many and varied.

**Wipf AG - Innovative Packaging Solutions**

The core competence of this Swiss family-owned company is the development and production of flexible high-density packaging solutions with barrier properties. Roll stock and pouches are offered for the food, non-food, pet food and pharmaceutical sectors. The manageable size of the company, a strong development department and state-of-the-art infrastructure in laboratory, production and logistics are the basis on which innovative and flexible solutions are designed and successfully implemented.

**Visuals:**

Illustration no. 1:



Image caption:

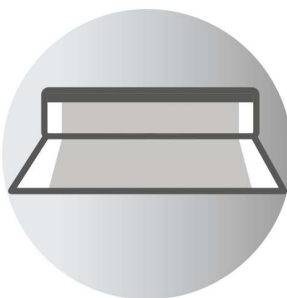
Lock 3 provides efficient germ load reduction on bag surfaces by up to 99.99 %

Illustration no. 2:

**Effect of the antimicrobial lacquer**



Packaging without antimicrobial lacquer (viruses, bacteria)



The lacquer is applied by conventional printing processes



Activation through reaction with visible light and oxygen



Packaging with antimicrobial lacquer. Germ reduction up to 99.99 %.

Illustration no. 3:



Image caption:

Lock 3 antimicrobial coating keeps packages virtually germ-free on store shelves and in use at home.

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