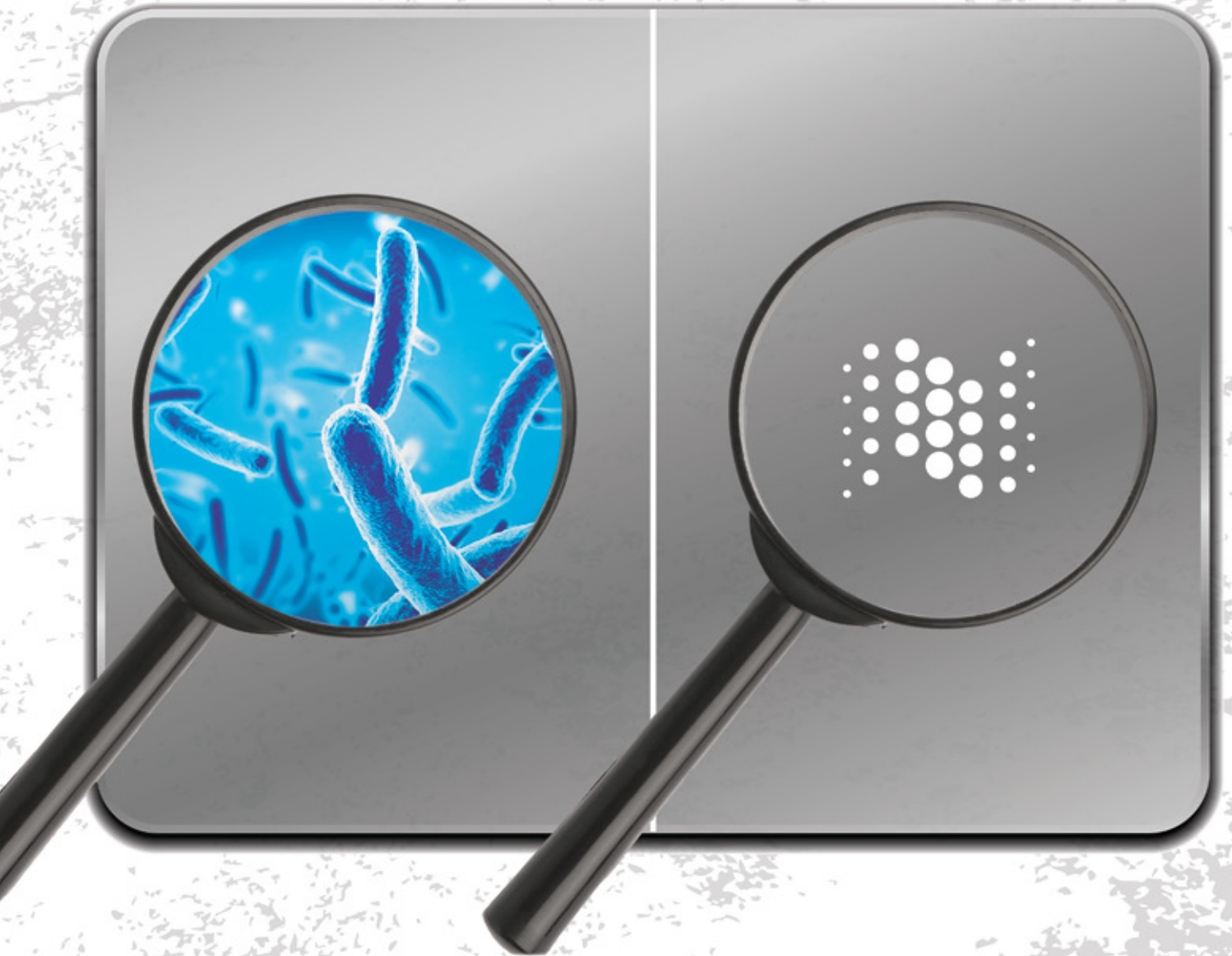


PULVER **ANTIMICROBIAL POWDER COATINGS**



pulver

Pulver **Antimicrobial** Powder Coatings



Pulver Kimya continues to offer innovations in general industry powder coatings as well as in automotive, white goods and architecture.

In addition to the recyclable and environmentally friendly use of powder coatings, the fact that they do not have a negative impact on human health has gained importance in terms of their preferability. Easily applied powder coatings that do not cause any post-application waste or harm the environment, air and water are among the fastest-growing product groups in recent years.

Pulver industrial powder coatings have been developed to provide protection/resistance and desired appearance for the coated products.

We are glad to support our valued customers with unique finishing products and innovative coating solutions. We will continue to offer value-added solutions for sustainable projects and color your world.



Pulver Antimicrobial Powder Coatings

Today, health and hygiene sensitivity have gained importance in combating bacterial diseases. It is because modern life offers ideal environments for different types of microbe groups on material surfaces. The need for products with antimicrobial-biocidal properties has increased especially where bacteria can create habitats. Therefore, there is a need for powder coatings that prevent the formation of bacteria on the surface in areas where multiple people move simultaneously including hospitals, schools, ATMs and public transport.



As Pulver, we have been conducting examinations on antimicrobial powder coatings in order to benefit humanity. As a result, we have developed the products that can provide protection/resistance and an aesthetic finish on coated surfaces.

Pulver **Antimicrobial** Powder Coatings

Usage Areas

Antimicrobial products are effective in areas where human traffic is heavy. Used in areas with hygiene awareness, these products are ideal for hospital-laboratory equipment, food industry, schools, ATMs, public transportation vehicles, telecommunications industry and childcare facilities.



ISO 22196:2011 Antimicrobial Test Certificate

This is to certify that

Product Code : SANI

supplied by

PULVER KIMYA SAN. VE TIC A.S

Gebze Organize Sanayi Bolgese (GOSB)

Tembelova Alani 3200 Sokak No:3201 Gebze 41400 Kocaeli / Turkiye

has been tested to ISO 22196:2011 standards and shown to reduce

Staphylococcus aureus by $\geq 99.97\%$
Escherichia coli by $\geq 99.99\%$

Date of test: January 2019
Test laboratory: Industrial Microbiological Services Limited
Registered in England 3264423
Certificate Number: 1037007.49/12809


Paul Phillips
Technical Manager



Permanent antimicrobial protection for your products

Product Certificate Content

Antimicrobial powder coatings have been developed to prevent harmful microorganisms from adhering to surfaces through chemical properties or disrupt their structure. They have been subjected to surface effectiveness tests. ISO 22196 2011 Antibacterial Activity (R) tests were performed at Industrial Microbiological Services Ltd (IMSL) UK and "Intertek Test Services" to determine the active substance effectiveness. The effect of the coating was determined on the *Staphylococcus aureus* and *E. Coli* microorganisms with the following results:

Staphylococcus aureus by $\uparrow 99.97\%$ *Escherichia coli* by $\uparrow 99.99\%$

In light of the above results, it was observed that our antimicrobial powder coatings meet all the protective and decorative properties expected from a powder coating, as well as reduce the effectiveness of the above mentioned bacterial species by 99.99%, thus keeping the surface hygienically clean. In addition, it reduces the risk of cross-contamination.

The above conditions are valid for powder coatings that provide all kinds of color, texture and gloss appearance. Cleaning with a mild detergent or water is recommended for cleaning coated surfaces.

Pulver InTheWorld

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