



BACTIBLOCK® ANTIMICROBIAL SANITARY GLAZE

NanoBioMatters presents a new and revolutionary glaze for sanitary ware. Toilets, showers and sinks will have the **best hygienic conditions** with our transparent and highly efficient antimicrobial glaze.

What is BactiBlock® SAN glaze?

It is the first antimicrobial glaze launched that is especially designed for sanitary applications. NanoBioMatters technology has developed a transparent glaze with high antimicrobial functions. The base of this innovative glaze is zinc oxide doped with silver modified clay which confers bactericide properties to surfaces by chemical release combined with photocatalytic action.

Why use BactiBlock® SAN glaze in sanitary ware?

- ✓ **Transparent**
It can be used on top of all sanitary glazes, standard or color glazes.
- ✓ **Easy to apply**
- ✓ **High antimicrobial** properties.
- ✓ Does not affect product design.
- ✓ **Cost effective.**



Cost and efficiency

Antimicrobial glaze adds value and efficiency to sanitary applications without extra cost. Compared to standard glazes, NanoBioMatters technology is an innovative and cost-effective solution for sanitary ware. Following data shows that porcelain treated with **BactiBlock® SAN Glaze** obtains **100% microbial reduction**. Sanitary pieces and applications will have long lasting protection combined with the best hygienic conditions.

Antimicrobial effectiveness in Sanitary application

Sample Description	UFC 1 (Unity Forming Colonies)	UFC 2	UFC 3	Antimicrobial Activity R* (Log Reduction)	Microbial % Reduction
Control. Sanitary porcelain with standard glaze	2.51E+06	2.05E+06	2.31E+06	-	-
Sanitary porcelain with BactiBlock® SAN Glaze 1	1.56E+03	2.16E+03	2.12E+03	3,07	100%
Sanitary porcelain with BactiBlock® SAN Glaze 2	3.52E+03	4.18E+03	3.85E+03	2.77	100%

Test Method JIS Z-2801 for antibacterial activity and efficacy

Test conditions. Sanitary porcelain firing cycle was 1220 °C during 11 hours

* A sample shows antimicrobial properties when R≥2



Sanitary piece treated with BactiBlock® SAN Glaze.

Application Process

The antimicrobial glaze may be applied at the end of the decorating process before firing.

Usually, porcelain pieces are treated with a 1mm. thickness glaze layer. Each product will require between 3 to 6 layers, depending on product characteristics and color glaze.

Glazes used in the process guarantee hygienic conditions for the product and absorption in sanitary porcelain. Applying antimicrobial glaze at the end of the process will improve these properties.

**For more information about BactiBlock® SAN Glaze
or the application process please contact our**

Technical Support Department:

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