

# ANTI-MICROBIAL COATING TECHNOLOGY

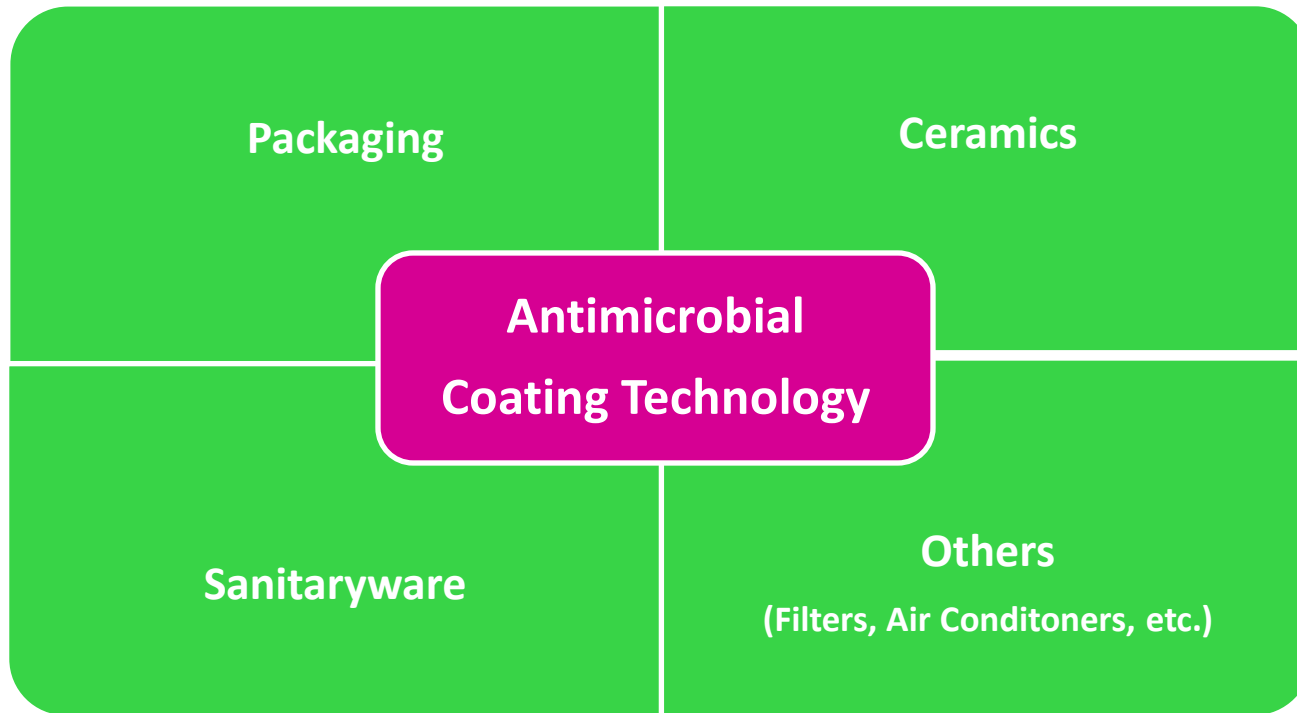


Anti-microbial coatings are used to reduce or stop growth of organisms like bacteria and fungi. Although there are many chemicals developed for anti-microbial purposes, one of the oldest methods known to combat microbes is silver, where a small amount of silver ions is often all that is needed. Unlike most other heavy metals that also exhibit anti-microbial activity, silver is not detrimental to humans, especially in the tiny quantities used for anti-microbial applications. In addition, since silver acts in multiple ways to inhibit a bacterium, resistant strain development of the organism is thought to be less likely than with other anti-bacterial products.

NanoSpray Combustion Processing technology is well suited to making silver nanostructured functional surfaces. nGimat is pursuing antimicrobial surfaces by depositing a layer of adherent silver nanodots onto substrates to provide, in the presence of moisture, silver ions to inhibit growth of fungi and bacteria for applications such as food packaging.



# TARGET MARKETS



# ADVANTAGES

