

Artisan – Artificial Surface Sanitiser

Background

The introduction of both indoor and outdoor artificial surfaces has greatly increased the opportunity to play sport in all conditions on a suitable playing surfaces.

The more surfaces are used, the greater the level of contamination from human tissue and body fluids e.g. skin, sweat, hair, saliva. Outdoor surfaces also get contaminated by wildlife faeces. All these waste products can provide a food source for bacteria, moulds, algae and fungi. The bulk of these bacteria are harmless to users. However, there are potential health hazards if certain types of bacteria build-up such as Staph or MRSA factors to be considered are:

1. **Intensive Use** – Artificial surfaces are usually in use year-round for a range of sports including football, rugby training, hockey.
2. **Contact** – Sports that are played on artificial turf most likely involve some form of contact.
3. **Skin scrapes** – Sports like football, hockey, rugby are notorious for leading to minor abrasions, cuts, and scrapes. Surface burns are of special concern, and are not preventable in physical sports.
4. **Contaminated Surfaces** – Bodily fluids from blood, mucus, and saliva are very common on playing fields. These bodily fluids lurk in the fibres of synthetic turf providing an ideal environment for bacteria and moulds.

Bacteria can be killed by high intensity UV light, but once they are below the surface they are then protected from this radiation and thrive in a moist environment micro-climate .

Long term trials using products of the same formulation as Artisan, in hospitals have shown significant reduction of bacteria, moulds, algae and viruses on artificial surfaces including coronavirus strains

Recommendations

Artificial surfaces can be sanitised in a similar way to hard surfaces in hospitals. Artisan, unlike other products, provides an invisible Byotrol® barrier that protects for days, giving powerful, gentle, long-lasting control of germs. It is proven to be active against many pathogens including Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa, Enterococcus hirae, Influenza A H1N1, Rotovirus, Campylobacter jejuni, Listeria monocytogenes, MRSA, Candida albicans. The formulation has passed European Standards EN 1276 and EN 13697 against bacteria, EN 1650 (40°) against fungi and EN14476 against viruses.

Trials have shown that 2 or 3 applications per year of a 2% Artisan solution to artificial surfaces reduces overall population of bacteria. It will also reduce the development of moulds and algae thus avoiding issues of odour. Bacteria populations are reduced by 99% plus within an hour of application.

Residual Activity

Test at UEA have shown the formulation of Artisan provides longer control than the standards

04/08/16

10 DAYS POST
CONTAMINATION

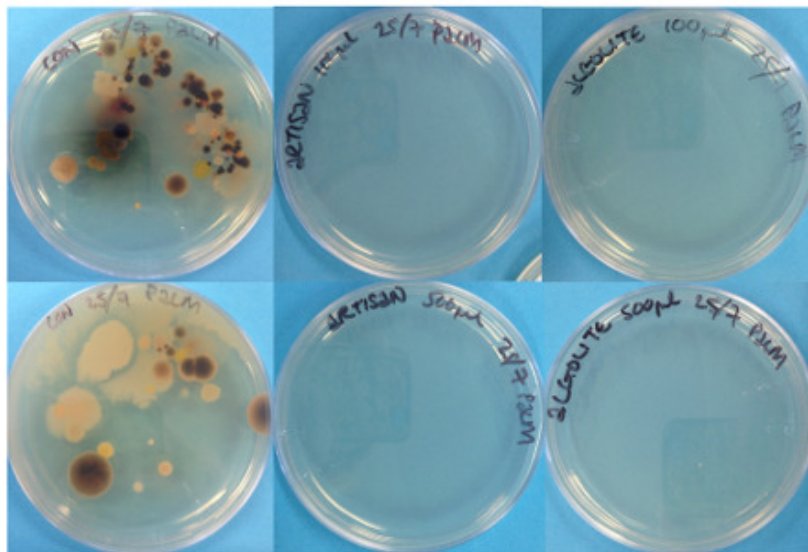
CONTROL

ARTISAN

STD

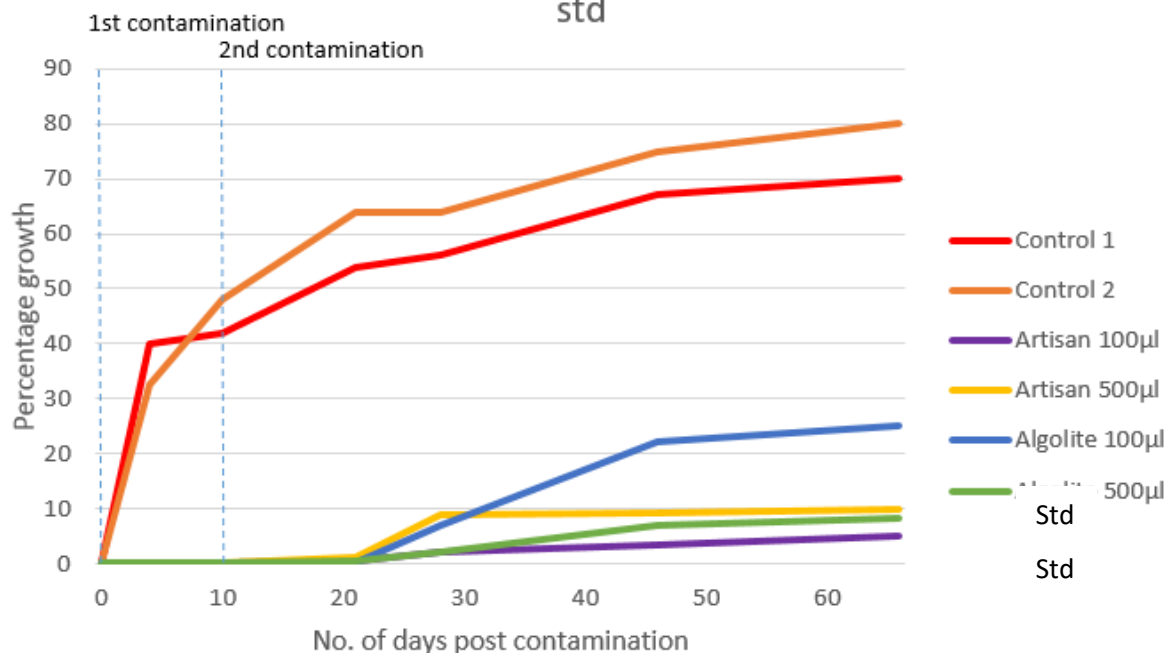
100µl

500µl



After 10 days of incubation all treatments showed excellent control, plates were re-contaminated to test residual activity and bacterial growth monitored

Growth rate of bacteria after treatment with artisan and std



Application

Apply product as a 2% of spray solution with either knapsack or power sprayer

Optimum spray volume 400 l/ha of clean water

8 litre of Artisan will treat 10,000 square metre

5 litre of Artisan will treat 6,250 sq m

1 litre of Artisan will treat 1,250 sq m

For full user instructions see label

£55 5l pack