

Client: SAN-AIR Distributor and their end Client

This building is in the southern states of Australia. SAN-AIR has been asked to respect privacy and not release names of companies involved, nor of people involved, nor specific location of buildings.



Situation:

Our client was approached by the Dairy Facility manager

- Several attempts to stop the issue of customer complaints about mould and yeast in the powdered milk packaged to sell to consumers. This level of complaints would get up to 10% of packaged goods at times. Despite having used other means to control the issue, such as UV lights and other similar devices, there was no abatement to the infestation.

Treatment:

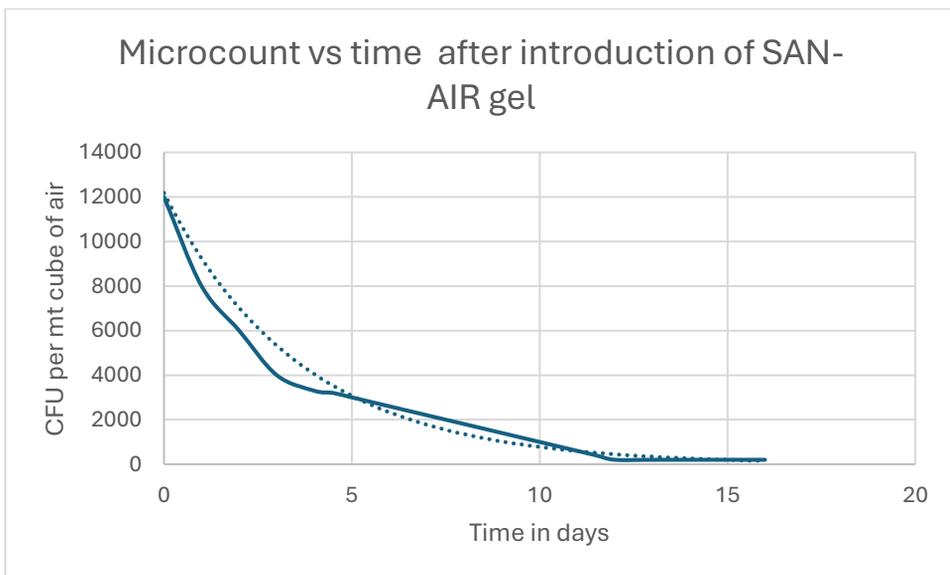
The end client followed treatment suggested for implementation was simply to deploy 250gm blocks of gel placed in the return air box of the air handler controlling the air in 2 x 1000 square meter manufacturing areas

Methodology

- The in house microbiology department monitored the air borne bioburden over a period of 4 months, and graphed the results.
- SAN-AIR had advised where to take measurements from but the dairy factory already knew its vulnerable points and took samples from those locations to track the use of SAN-AIR in its air conditioning.

Results:

- The results showed a remarkable decrease in fungal load
- The musty odour that was present, disappeared



A line of best fit is shown for comparative purpose.

The low results continued for another 10 days at which point the gel exhausted (fully evaporated). The end user continued measuring and discovered the residual power of the gel action and continued seeing low count for another 5 weeks, then suddenly the issue coming from its manufacturing operation recontaminate its air conditioning system.

Conclusion:

After this inhouse study, the end user specified the use of SAN-AIR gel in its preventative maintenance for the air handler and discovered the system to be effective and low cost, with 6 kg of gel deployed every six months. The end user reported after 12 months that its customer complaints had decreased to near zero.