

CASE STUDY: Village Grocer Sunway Giza



Sunway Giza Mall is a premier shopping, dining and entertainment complex in the Kota Damansara area. Similar to The Curve shopping centre, the 85,900sqft complex comprises of an indoor air-conditioned shopping mall with trendy retail stores and an outdoor strip with al fresco dining outlets.

A five-minute drive from IKEA, Ikano Power Centre and Tesco, Sunway Giza's stylish fashion boutiques are especially popular, as are its sidewalk cafes and restaurants. The complex aims to attract nearby Kota Damansara residents and its anchor tenant Village Grocer is the most frequented supermarket in the neighbourhood. Plans are in the works for a new Light Rail Transit station to be built nearby Sunway Giza.

Village Grocer is the anchor tenant of Sunway Giza Mall and occupied a space of 27,000sqft. The outlet is very much congested before the Move Control Order (MCO) especially being in the prime location and currently there will be imposition of a people control SOP in the premise in compliance to the RMCO's guidelines.

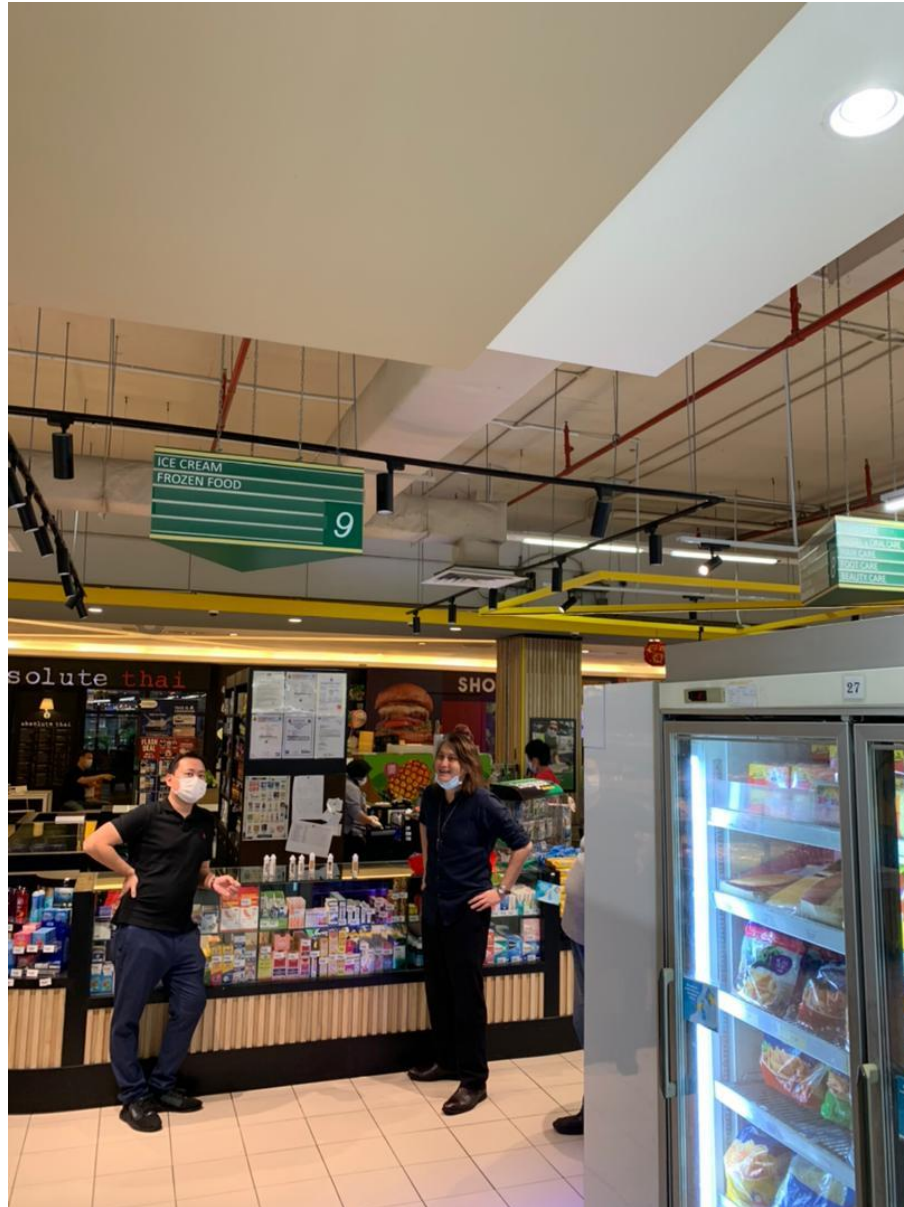
Test Method:

1. Identify test location(s) in the building.
2. Using a surface sampling instrument to swab a ceiling signage and marked as "before treatment" reading(s). Due to the height, the ceiling signage has never been sanitized for certain period of time.
3. Installation of the treatment and maintenance PUREFOLIO SAN-AIR gel 75g on a display rack labelled as "L'OREAL's Display".
4. Retest frequency based on swab tests taken the next 4-7 days.
5. Interpretation of results

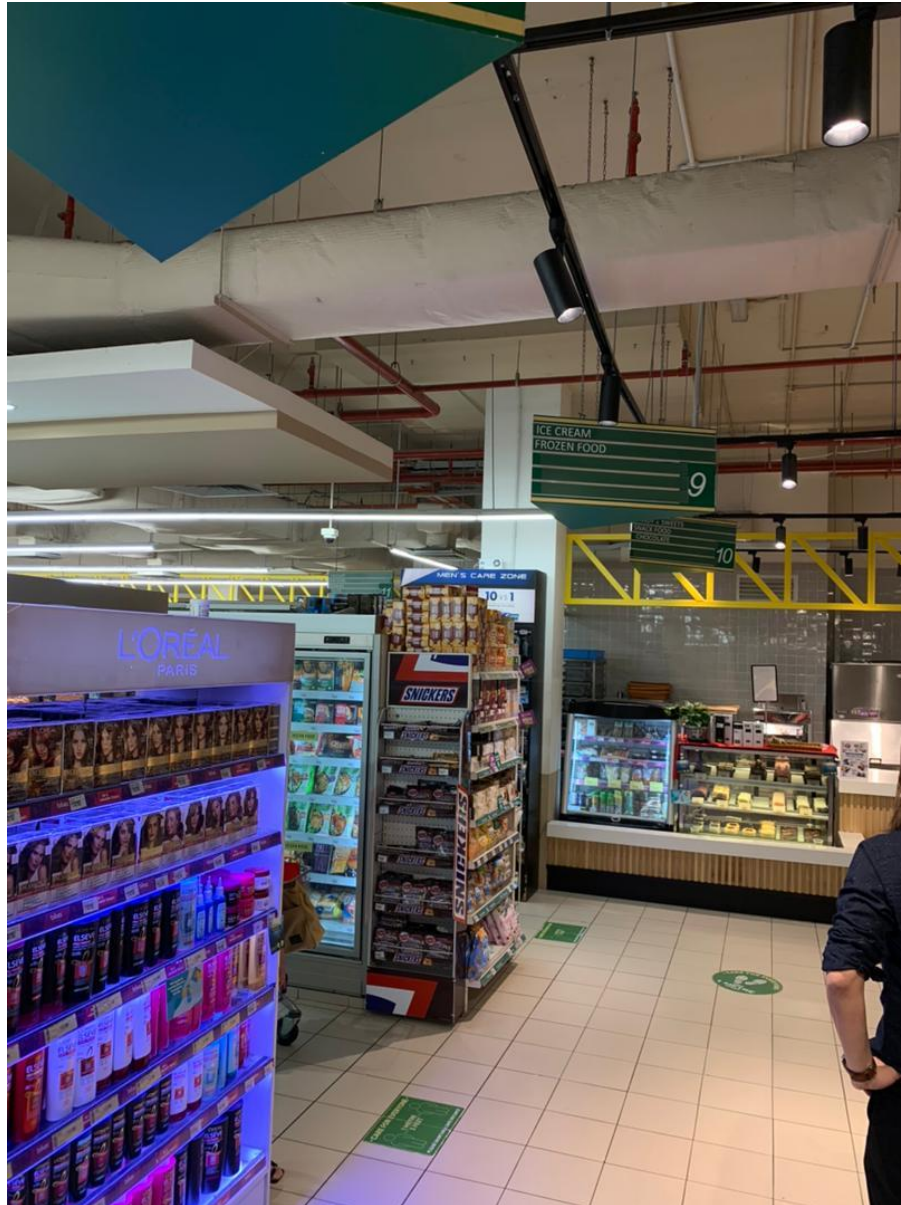


Article 1 & 2: Test Area – Ceiling Signage 9

The swab taken at two spots of the ceiling banner, one virtually impossible for the air stream to reach and another spot facing directly north bound from the deployed PUREFOLIO SAN-AIR's gel.



Article 3: Deployment of PUREFOLIO SAN-AIR Bioclean Gel 75gm on top of L'OREAL shelf



Result Spot 1: as of 19th March 2021



Spot 1 is located at the blind spot of the Ceiling Signage 9, situated directly opposite the deployed PUREFOLIO SAN-AIR's jar and impossible for the air stream to reach.



Left tube: Swab taken before treatment 11th March 2021, with bacteria & mould load and the nutrients on the strip encourage further growth.

Right tube: Swab done on the 15th March 2021 post PUREFOLIO SAN-AIR's treatment and the result interpreted on 19th March 2021 indicated a significant reduction on the bioburden load.

There is another swab conducted on the same spot taken on 19th March 2021 and the result indicated on the next pictorial evidence.



The left test tube is the swab done on the same spot taken on 19th March and the result is interpreted on 24th March 2021. A significant reduction on the bioburden load despite the swab area was never sanitized before and the location of the spot is actually a blind spot which is difficult for the actives to reach. ** This spot is facing directly opposite the PUREFOLIO SAN-AIR's jar and the air diffusion is actually spreading the sanitizing actives out to the outer open space.

The right test instrument is a new and unused test instrument.



Result Spot 2: As of 19th March 2021 & 23rd March 2021

Spot 2 of Ceiling signage 9 is directly facing the PUREFOLIO SAN-AIR jar at a distance of 2.3m and to ensure proper control the signage was never sanitized Pre & Post Air Therapeutic.



Left tube: Swab taken 15th March and results interpreted on the 19th March, indicating reduced bio burden load after 4 days of PUREFOLIO SAN-AIR's gel treatment.

Right tube: Swab just take from the same spot for results due 23rd March.



As of 23rd March,

Left tube: Continued to have growth due to the nutrients supplied by the agar strip and is a non-indicative interpretation.

Right tube: Significant bioburden load reduction after 12 days of PUREFOLIO treatment with some small and tiny spots on the agar strip.



The Challenges:

- Uncontrolled and large area of coverage 27,000sqft / 2500sqm.
- Unvalidated air diffusion as our team do not have apparatus like anemometer.
- Only one PUREFOLIO SAN-AIR's jar was deployed which has a designated area of coverage of 50-100sqM only versus a huge area of 27,000sqft.
- One spot on the ceiling signage is virtually unreachable for the PUREFOLIO SAN-AIR's actives but the microbial challenge proven otherwise.

Conclusion

The usage of PUREFOLIO SAN-AIR's gel clearly indicated the circulating air in the AC environment proven to reduce the bio-burden contamination level significantly. The results shown extreme improvement in day 12 post therapeutic despite the challenging condition of a single jar which meant to do the work for a space of only 80sqM being deployed in a massive area of 2500sqM