

## **Antibacterial Report**

## Report on maiLaminate / maiCompact for Antibacterial Test

SECTION 1:

Product and Company **Identification**  MANUFACTURER:

Maica Laminates Sdn Bhd 5100, Lorona Mak Mandin 5 Mak Mandin Industrial Estate 13400 Butterworth, Penana, Malaysia.

MANUFACTURER'S EMERGENCY CONTACT:

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#### PRODUCT DESCRIPTION:

In a world where hygiene is of significant importance, there is a great demand for hygiene-sensitive products and applications, especially for the health care sector. Maica fulfills this demand by providing you an antibacterial surface solution, which combines with high quality decorative surface materials of our maiLaminate (High Pressure Laminate) and maiCompact (Compact laminate) panels.

SECTION 2:

## **Antibacterial Agent**

#### **HOW DOES ANTIBACTERIAL WORK?**

- The active agent is dissolved in the melamine resin and will release its effectiveness in the event of a direct contact with the surface.
- When bacteria come into contact with the surface, the additive will damage their cells in a number of ways. This will prevent further growth of the bacteria and the bacteria will die out.

SECTION 3:

### Test Method

Antibacterial performance is tested according to the JIS Z 2801:2000 (Antimicrobial products – Test for antimicrobial activity and efficacy) by PSB Singapore.

SECTION 4:

#### Result

Results show that maiLaminate / maiCompact reduces the level of bacterial growth on the surface up to 99%, thus providing a hygienic solution for your applications.

|                                                    | (Criteria: Not Less Than 2.0) |
|----------------------------------------------------|-------------------------------|
| Escherichia coli                                   | More than 6.2                 |
| Methicillin-resistant Staphylococcus aureus (MRSA) | More than 4.1                 |
| Pseudomonas aeruginosa                             | More than 6.1                 |
| Staphylococcus aureus                              | More than 5.6                 |
| Salmonella cholereasuis                            | More than 5.5                 |











Value of Antimicrobial Activity

**Bacteria** 



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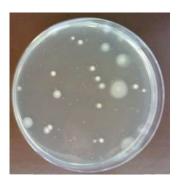
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SECTION 4:

# Result (continued)

#### **PETRI DISH RESULT:**

The Petri Dish Result shows clearly that there are still some bacteria present on the control sample. The maiLaminate / maiCompact dish is clear, indicating the absence of bacteria.



Control Sample



maiLaminate / maiCompact

# SECTION 5: Conclusion

#### SECTION 6:

## maiLaminate / maiCompact Antibacterial Certificate

maiLaminate / maiCompact antibacterial surface prevents the growth of bacteria on the surface up to 99% within 24 hours.



#### SECTION 7:

## **Applications**

#### **Public facilities**

Swimming pools

Schools

Sanitary facilities

Office

Office furniture

Counters

**Receptions** 

Leisure area

Shopping center

Hotels

## **Health** care

Hospitals

Doctor's surgeries

Medical research

Laboratories

#### Private household

Kitchens

Bathroom

Interior design









