

To the attention of
QUDS PAINTS INDUSTRY LTD. CO.
Industry Zone P.O. Box 176
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Jordan

Antibacterial test using method JIS Z 2801:2010 and anti-mildew test using method HGT 3950:2007. Our report reference: MA2220

To whom it may concern,

We hereby certify that our Microbiology Laboratory conducted the mentioned tests to determine the antibacterial and anti-mildew activity on paint samples received from your esteemed company, obtaining the following conclusions:

Sample tested: "QP Decorative paints"

ANTIBACTERIAL PROPERTIES: **Pass the test** JIS Z 2801:2010 Antibacterial products, test for Antibacterial activity and efficacy using bacteria *Staphylococcus aureus* (CECT 239) and *Escherichia coli* (CECT 516) with Reduction logarithm higher than 2 ($R > 2$).

ANTI-MILDEW PROPERTIES: **Pass the test** HGT 3950:2007 Anti-mildew Property using Mixed fungus spore suspension. Show very good protection in the three repeated specimens of each.

For detailed information on the results, please, refer to our report MA2220
Tests with viruses have not been conducted. However, we have observed that architectural decorative paint films containing fungicide-algaecide do not meet the necessary conditions for viruses to remain active.

Microorganisms can grow on non-coated surface areas (for example, wholes and cracks) or with poor film formation. For this reason, in addition to use enough concentration of biocides, is especially important to formulate a coating with high amount of polymer resin to enable good film formation, flexible, with good adhesion, with scrub resistance, water resistance, washable and resistant to changing weather and environmental conditions. Coatings must be applied properly by professionals, on a stable substrate, clean and free of microorganisms.

We trust this information will be useful to you.



Juan Luis Castillo
Technical Manager