Microbe Investigations AG

LS26-00042

Report date: June 09,2026

Customer: BASWA acoustic AG

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Microbe Investigations AG (MIS) is a spin-off company of ETH Zürich

MIS provides microbiological testing services primarily for industrial customers assessing the characteristics of developmental products. MIS also provides a depth of expertise in fundamental aspects of microbiology gained throughout many years of world-leading research. Target customers are primarily companies working with antimicrobial treatments on textiles, plastics, and coatings.

More information: www.microbe-investigations.com

Test Report Overview

General Info	Name	Contact	Key Account Manager
Customer	BASWA acoustic AG	Person name	Christian Hoppenheit
Reason for testing	Customer Quality Validation (CQV)	Application by	Not specified

Test methods carried out in this report		
Effect / Property	Testing standard	Test parameter
Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber	ASTM D3273- 2021	Fungus: *Aspergillus niger* (ATCC 6275) *Penicillium sp. (ATCC 9849)* *Aureo basidium pullulans* (ATCC 9348)

Test results: Very Good Effect Level

Test Summary/ Comments:
In the Test ASTM D3273- 2021

1. The "BASWA Basic Classic Base System- Mineral, monolithic acoustic panel that is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA Prime as a base coat and BASWA Base/Fine/Top as a final coat" when challenged with *Aspergillus niger* (ATCC 6275), *Penicillium sp. (ATCC9849), Aureobasidium pullulans* (ATCC9348) No Fungal Growth is observed on the surface (Rating-10) during incubation for 4 Weeks.

2. The "BASWA Basic One System- Mineral, monolithic acoustic panel that is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA One as a final coat. challenged when challenged with *Aspergillus niger* (ATCC 6275), *Penicillium sp. (ATCC9849),* Aureobasidium *pullulans* (ATCC9348) No Fungal Growth is observed on the surface (Rating-10) during incubation for4 Weeks.

3. The BASWA Natural Base System- Acoustic panel consisting of sustainably grown and harvested hemp and flax fibers and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA Base as the base layer and BASWA Base/Fine/Top as the final layer when challenged with *Aspergillus niger* (ATCC 6275), *Penicillium sp. (ATCC9849), Aureobasidium pullulans* (ATCC9348) No Fungal Growth is observed on the surface (Rating-10) during incubation for4 Weeks.

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4. The BASWA Phon Fine System- Acoustic panel consisting of mineral wool and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated seamlessly with BASWA Fine as the final coat. When challenged with when challenged with *Aspergillus niger* (ATCC 6275), *Penicillium sp. (ATCC9849), Aureobasidium pullulans* (ATCC9348) Specimen remained free of fungus growth (Rating-10) during incubation for4 Weeks.

5. The BASWA Phon Classic Top System- Acoustic panel consisting of mineral wool and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated seamlessly with BASWA Base as the base coat and BASWA Base/Fine/Top as the final coat. When challenged when challenged with *Aspergillus niger* (ATCC 6275), *Penicillium sp. (ATCC9849), Aureobasidium pullulans* (ATCC9348) Specimen remained free of fungus growth (Rating-10) during incubation for4 Weeks.

6. The BASWA DTG Prime Base- Acoustic panel consisting of mineral wool which is screwed to suspension grid rates. It is then coated seamlessly with BASWA Prime as the base coat and BASWA Base/Fine/Top as the final coat. When challenged with when challenged with *Aspergillus niger* (ATCC 6275), *Penicillium sp. (ATCC9849), Aureobasidium pullulans* (ATCC9348) Specimen remained free of fungus growth (Rating-10) during incubation for4 Weeks.

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Samples Information

Sample	Sample description
BASWA Basic Classic Base System	Mineral, monolithic acoustic panel that is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA Prime as a base coat and BASWA Base/Fine/Top as a final coat.
BASWA Basic One System	Mineral, monolithic acoustic panel that is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA One as a final coat.
BASWA Natural Base System	Acoustic panel consisting of sustainably grown and harvested hemp and flax fibers and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA Base as the base layer and BASWA Base/Fine/Top as the final layer
BASWA Phon Fine System	Acoustic panel consisting of mineral wool and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated seamlessly with BASWA Fine as the final coat
BASWA Phon Classic Top System	Acoustic panel consisting of mineral wool and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated seamlessly with BASWA Base as the base coat and BASWA Base/Fine/Top as the final coat.
BASWA DTG Prime Base	Acoustic panel consisting of mineral wool which is screwed to suspension grid rates. It is then coated seamlessly with BASWA Prime as the base coat and BASWA Base/Fine/Top as the final coat.

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Test Details

Test Organisms: *Aspergillus niger* (ATCC 6275)
Penicillium sp. (ATCC 9849)
Aureo basidium pullulans (ATCC 9348)

Contact Time: 4 weeks

Test Temperature: 32.5 ± 1°C

Relative Humidity: 95 to 98 %

1. **Preparation of Apparatus**

- Place greenhouse soil in the tray in the cabinet and add water to the tank chamber to the desired depth. Allow the cabinet to equilibrate for 24 h before inoculating the soil with the specified mold suspensions.
- Prepare mold slants of all three cultures and age 10 to 14 days. The surface growth was gently scraped from the culture of the test organism.

2. **Preparation of mold suspensions from mold slant by the following procedure:**

- Add one drop of 25 % non-ionic surfactant solution to 95 to 100 mL sterile deionized or distilled water and shake.
- Pipet 5 mL of this solution onto the mold slant. Scrub the surface of the slant with a sterile cotton swab to remove as much spore and mycelial growth as possible without digging up the surface of the agar.
- Pour the water from the scrubbed slant back into the surfactant-sterile water mixture for dilution. Shake gently for 15 to 20 min to break up clumps of mold.
- Use a pipet to distribute the mold suspensions evenly over the surface of the greenhouse soil in the tray in the cabinet.
- Allow 14 days of continuous operation for the mold to sporulate and equilibrate with the environment before starting a test.
- Mold growth should be medium-heavy to heavy and cover the complete surface of the agar plate.

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3. **Viability Check:**
   - Viability of the mold growth in the cabinet can be checked by placing Sabroud Dextrose agar or potato dextrose agar plates,12 open and face up, at several locations on the panel support rods.
   - After 1 hr, cover plates and place in incubator at 32.5 ± 1°C (90 ± 2°F) for 3 days.
   - If an incubator is not available, leave the covered plates in the cabinet.
   - Mold growth should be medium-heavy to heavy and cover the complete surface of the agar plate.
4. **Procedure:**
   - Hang the panels vertically with the bottom approximately 3 inch above the surface of the inoculated soil and with sufficient spacing to allow free circulation of air and to prevent contact between panels or with wall surfaces

Table 1: Fungal results are reported according to the following rating system in Table from ASTM D 3273:

Rating	Description
10	No Fungal Growth is observed on the surface
9	Trace, less than 1%of the surface area is affected by growth
8	1-2%of the surface area is affected
7	2-3% of the surface area is affected
6	3-10% 0f the surface area is affected by growth
5	10-20%of the surface area is affected by the growth
4	20-30%of the surface area is affected by the growth
3	30-40%of the surface area is affected by the growth
2	40-50%of the surface area is affected by the growth
1	50-60%of the surface area is affected by the growth
0	Greater than 60%0f the surface area is affected by growth

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Test Results

Table 2: Test Result reported according to the following rating system in Table 1 from ASTM D 3273

Test Sample		4 weeks
BASWA Basic Classic Base System	Mineral, monolithic acoustic panel that is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA Prime as a base coat and BASWA Base/Fine/Top as a final coat.	10
BASWA Basic One System	Mineral, monolithic acoustic panel that is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA One as a final coat.	10
BASWA Natural Base System	Acoustic panel consisting of sustainably grown and harvested hemp and flax fibers and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated with BASWA Base as the base layer and BASWA Base/Fine/Top as the final layer	10
BASWA Phon Fine System	Acoustic panel consisting of mineral wool and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated seamlessly with BASWA Fine as the final coat	10
BASWA Phon Classic Top System	Acoustic panel consisting of mineral wool and an organically bound 6 mm thick pre-coating made from recycled glass, which is bonded to all mineral substrates using BASWA Fix K/C. It is then coated seamlessly with BASWA Base as the base coat and BASWA Base/Fine/Top as the final coat.	10
BASWA DTG Prime Base	Acoustic panel consisting of mineral wool which is screwed to suspension grid rates. It is then coated seamlessly with BASWA Prime as the base coat and BASWA Base/Fine/Top as the final coat.	10

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Images For Reference

As no fungal growth was observed on the test specimen, photographs of the sample were not included in the report. To verify the viability of the test conditions, a viability control plate was maintained, and the corresponding image is provided below.



Image 1: Viability Check Plate

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