Interface®

Artemis Biosolutions Case Study School Carpet

Clean with purpose

Design with Purpose

Case Study Summary

- An Interface modular tile was presented to Interface Microbiology Services
- The tile was from an independent school system in the mid-west
- The tile had patches of darkened stains

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Case Study Summary Cont.

- The tile had a matted soiled appearance
- The tile also had a musty smell
- This presentation summarizes corrective and restorative steps to document effective removal of mold on carpet
- The study also documents the sustained biostatic properties of Intersept coupled with sanitizing maintenance

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Soiled carpet developed patches of mold



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stereomicroscope view of nylon fiber with Aspergillus mold on it.

stereomicroscope view of nylon fiber with Aspergillus mold on it.

Microscopic view (400X) of soiled carpet fiber with mold growth present.

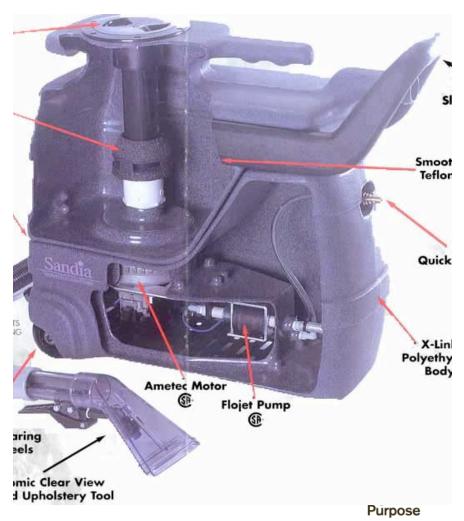
Aspergillus mold

Macroconidia of Alternaria

Sandia 3 gallon extractor



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Interface Process for Biocontaminant Removal and Inactivation

- Carpet was pre-spotted with Artemis Biosolutions Carpet (50:50 side A and side B), brush agitated into the pile, allowed to stand 15 minutes
- A dual motor-3 gallon extractor (Sandia) was used to vacuum extract soil and biocontaminants from the carpet
- The extractor used diluted Artemis Biosolutions product at 2 oz per gallon each (Side A and Side B)
- The pre-spotting and extraction procedure was repeated twice with extra vacuum only passes to remove residual moisture
- Carpet was allowed to air dry 24 hours prior to any further processing



CLEANS-REMOVES STAINS-DEODORIZES

es Drt, Grime, Mildew Stains, Pet Stains, Bio Film Buildo Neutralizes Pet, Fire, Cigarette and Smoke Odors

KEEP OUT OF THE REACH OF CHILDREN CAUTION Mel for additional precautionary statements and first ad

⁴³ BOD SC GELDEDL. May cause eye damage, May be Harmful if swallowed or table J is to broughly with scap and water after handling and before earling, draking, using table

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ARTEMIS BIO-OXYGEN CARPET PART B

minted booster to be added in equal parts to BIO-OXYGEN (apprile) inter is designed to boost the penetrating effects of BIO-OXYGEN (APP

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NEW REACT OF CHILDREN. May cause eye damage, May be Harmful if owallowed or table live if was list damagely with scap and water after handling and before eating, dmisin, any sharran



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Spot Extraction Sandia 3 Gallon Extractor



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Appearance of extraction recovery water from 1/2 IPS 48 carpet tile

40

heavy soiling





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Concession

Soil from 1/2 carpet tile from IPS 48

Colgate

100

20 · •

EXI

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Ground Rodrigue's Blue Day Estable

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IPS 48 carpet tile

matted and soiled fiber

As received

Post Sanitizing

improved texture and color and overall hygiene The IPS 48 carpet fiber was cleaner and mold free after the sanitizing procedure with Artemis Biosolutions Carpet

Post-santizing culture of IPS 48 carpet

Soiled half of tile

Cleaned with carpet santizer

Aspergillus, Alternaria Staphyloccocus and Bacillus

Effectively removed soil and bio-contam

ASTM 24/1 mold challenge of sanitized Interface carpet tile from IPS 48

biostatic activity restored following sanitizing and soil removal

- Use the right Chemistry
- Use the right Concentration
- Allow adequate Contact Time

Protecting Appearance and Sanitizing

- Soiled carpet harbors mold spores
- Routine vacuuming will remove particulates including spores
- Intersept biostat inhibits mold between cleanings
- Use of Artemis Biosolution Carpet effectively
 cleaned and removed biocontaminants and soil
- If faced with soiled musty carpet...

It's what we would use......