



# ACRY-TECH COATINGS

EARTH FRIENDLY SAFETY & PROTECTIVE COATINGS

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Design & Manufacture of Architectural & Specialty Coatings

## Independent Testing Laboratory Results For *BIOQUELL*<sup>®</sup>

<b>Test Results Date:</b>	February 4, 1993
<b>Testing Laboratory:</b>	HÜLS America, Inc Turner Place, P.O. Box 365 Piscataway, NJ 08855-0365 (201) 981-5000
<b>Test Conducted By:</b>	John J. McCloskey—Microbiologist Jeffery S. Hinkle, Ph.D., R&D/Technical Service Manager
<b>Test Reference Code:</b>	93-2702-2501-13
<b>Tested Against:</b>	Aspergillus niger (ATCC 6275) Penicillium funiculosum (ATCC 11797) Aureobasidium pullulans (ATCC 9348)

Three samples were submitted for rigorous testing to determine the efficacy of Acry-Tech's Biocide System to be used in coatings, paints, and clear sealers.

Testing procedures required that the samples undergo an extremely rigorous weathering protocol prior to their inoculation with various known biological agents including Mold, Mildew, Fungus and Algae, the common and persistent biological components that grow on roofs and lead to roof staining.

After 1000 hours in a weather-o-meter to accelerate the aging of the samples, they were "infected" with Mold, Mildew, Fungus and Algae along with a food source to encourage rapid propagation of the mold, mildew, fungus and algae biological mix.

The temperature in the incubation chamber was elevated to over 80° F with a relative humidity of up to 90% which is an extremely harsh environment and one in which biological growth can flourish. To even make the test more harsh, the samples were sprayed with water at frequent intervals to simulate the effect of rainfall. This test simulated the long term effects of weathering that may take many years on the average roof and a climate that is known to provide a rapid breeding ground for bacterial growth.

The samples were tested on a weekly basis to see how the weathered samples performed against the growth of the biological agents with which it was infected.

*After 1000 hours of accelerated weathering in an extremely hostile environment, Bioquell<sup>®</sup> completely prevented the growth of Mold, Mildew, Fngus and Algae on the Bioquell<sup>®</sup> samples!*