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Effects Of Acid Rain On Structural Materials

Acid rain damages many structural materials. This project was designed to determine acid rain's effects on 4 common materials. Those materials were steel, rubber, vinyl and concrete. Twice a day 4 test-set ups were sprayed to simulate acid rain exposure; 3 acid rain set-ups and 1 distilled water control. Throughout a 56 day testing period visual observations were gathered, and then converted into numerical form. Changes noted in exposed materials were assigned values as percentage of total damage at the test end. These data were then presented in graphical form to show effects of acid rain over time. Vinyl and rubber showed no effect throughout the test. The steel's appearance did change in time and the function and appearance of the concrete was notably degraded by the conclusion of the test.