

ACTEL's ENVIROGUARD WR series of Hydrophobes

The Problem

Water ingress to porous building surfaces leads to higher maintenance and repair costs as buildings age. Constant wet / dry cycles particularly in a climate like that of the U.K. can lead to physical damage from freeze / thaw cycles, acid rain and other environmental contaminants. Rain and wind can carry acid gases into steel reinforced concrete structures leading to carbonation and costly repairs as the pH of the concrete is shifted from a protective alkaline pH towards neutral and embedded reinforcing steel is no longer protected from corrosion. It can expand as it corrodes and cracks begin to appear leading to further water penetration, spalling and chunks of damaged concrete disbonding.

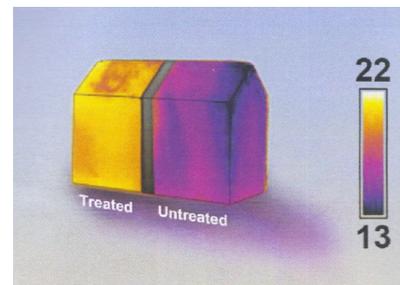
How can we help?



Using hydrophobes like the ENVIROGUARD WR series physically repels water keeping treated surfaces dry, keeping acid gases out.

BUT in a time of rising energy costs, treating surfaces with products from the ENVIROGUARD WR series has other important benefits.

1. As water evaporates from untreated building surfaces, changing state from liquid to water vapour, it draws heat energy, cooling the surface and structure thereby increasing the consumption of energy.
2. Tests have shown that thermal conductivity of wet building materials is higher than that of dry materials.



Therefore using the ENVIROGUARD WR series of hydrophobes to keep surfaces dry, reduces thermal conductivity and increases energy efficiency.

The Products

ENVIROGUARD WR25 ~ Water based non hazardous pore impregnating water repellent for dense surfaces

ENVIROGUARD WR50 Water based non hazardous pore impregnating water repellent for general purpose use on concrete, brick and stone

ENVIROGUARD WR100 Water based high actives non hazardous pore impregnating water repellent for use on very porous concrete, brick and stone

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<http://www.enviroguard-anti-graffiti.co.uk> <http://www.navysteel-rust-converter.co.uk>