



TerraDry: INCREASING WATERPROOFING TECHNOLOGY World-Wide

Engineers, construction contractors and builders have had to deal with the destructive chemical reactions cement-based building materials suffer. Water acts as the reaction medium or solvent in this destruction.

All types of masonry materials can be protected from intrusion of water by various waterproofing technology. Choosing a technology that provides long-term protection is essential for preservation of the structure and preservation of the owner's dollars.

Film formers / barrier type technologies (coatings) have been widely used but due to weathering and ultra violet exposure these coating have limited lifespan. Some as short as a year or two and some may last up to three to five years thus periodic reparative applications are required.

Aesthetics for new construction and preservation for old construction is become ever more important, with cost going up, the building industry is looking at waterproofing as a mechanism to maintain and preserve looks of structures.

Many products are available. The essential requirements waterproofing products must address are resistance they can impart to water absorption by the structure being protected, preventing the entrance of water soluble salts such as chlorides, penetration of waterproofing treatment to a measurable depth non-staining of treated surface areas, long-term stability in an alkaline environment, low environmental and health risk and ultra violet stability in excess of 25 years and above.

TerraDry is a non-solvent based organo-silane product that represents nano technology water proofing. TerraDry works at the microscopic level preventing the water molecules from being able to enter whatever substrate is being protected. The penetrants in the TerraDry chemically react with the substrate and provide molecular level hydrophobicity.

TerraDry can be easily applied by spray, brush or roller to new or existing masonry structures to protect them from mildew, fungus, efflorescence, leaching, staining, scaling, and spalling Corrosion of steel within reinforced concrete is reduced or eliminated. Nano sized TerraDry penetrates up to 5mm deep into the substrate and provides repellency into the pores of cementitious structures where other film formers like silicone resins, acrylic resins and epoxy resins cannot penetrate. Because it functions at the microscopic level it does not eliminate the breathability of the treated structure.

In addition to protecting masonry structures TerraDry is a valuable tool in road construction where it can be used as a soil waterproofing agent under asphalt roads to prevent water rise through capillary action thus adding years to the lifespan of roads.

For rural roads made of natural soils TerraDry creates an irreversibly hydrophobic and water repellent treatment thus giving higher compaction of soil and improving the resistance to wind and rain erosion of treated soil. TerraDry also prevents clay soils from absorbing water and expanding. The reduction in freeze-thaw cycle destruction is another benefit due to less water in the soil.

This data is provided for informational purposes only. GeoCHEM, Inc. makes no warranties as to the suitability or the fitness for a specific use or merchantability of products referred to, no guarantee of satisfactory results from reliance upon contained information or recommendations and disclaims all liability from resulting loss or damage. This information is subject to change without notice.

Exclusive DirtGlue[®] Distributor for AK, WA State & Oregon
Additional Territories: ID, MT, & ND
Phone: (907) 562-5755 ~ Toll Free: (800) 490.5320
Washington State Sales: 206.774.8777

