X-Rok

Chemically-Bonded Ceramic Radiation Shielding Solidification / Containment Solutions

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UNIQUE REPAIR / CONTAINMENT SOLUTIONS FOR RADIOACTIVE WASTE

By definition - X-Rok is a water-activated, non-toxic, high strength, ‘cold-fired’ ceramic concrete / coating material produced & applied using conventional Portland concrete / coating technologies that;

a. strongly bonds to Portland concrete, mineral, metal, cellulose, and self-bonds (eliminating cold joints),

b. durably resists water decay, salt erosion, high heat, fire, cold, mold, moss, bacteria & acid rain,

c. does not corrode metal rebar, leach, expand, shrink, or crack (deteriorate) with aging,

d. with optional working times ranging from 15-mins. to 1-hr.

NUCLEAR SHIELDING BENEFITS

Excerpts from Idaho National Lab nuclear shielding test report -

"The X-Rok formulas evaluated had a range of compositions, densities, and neutron and gamma-ray absorption characteristics. The validation measurements demonstrate the effectiveness of the X-Rok ceramic cement compositions for both gamma-ray and neutron shielding."

"Consequently, it is expected that layers or sequential X-Rok ceramic cements with layers of boron carbide cement layers and layers of more effective cements such as Wollastonite might be more effective for both gamma and neutron shielding."

(Important note: Wollastonite and boron carbide are minerals included within C3's global X-Rok patent rights.)

REPAIRING / REPLACING DAMAGED NUCLEAR FACILITIES / PROVIDING UNIQUE EMP PROTECTION

- Hanford, Chernobyl & Fukushima are well-known examples of the leaking, crumbling, concrete damaged nuclear facilities that can benefit from the U.S. Government tested repair, replacement, containment, waste solidification solutions C3's globally patented X-Rok formulas provide.

- Inclusive of Data Centers, Government Facilities, Communities, Homes, Businesses, Schools, Hospitals, and all public occupied areas prone to Wi-Fi, 5G, and EMP radiation dangers benefiting from the versatile, never-before-possible, radiation protection C3's X-Rok concrete/coating formulas also uniquely provide.

GLOBAL PATENT RIGHTS

X-Rok has been granted patent rights in the United States, Europe (including Britain, France, Germany and numerous other EU countries), China, Japan, S. Korea, Russian Federation, Israel, New Zealand, Canada, Mexico, with patent's pending in other countries.

"CHEMICALLY BONDED CERAMIC RADIATION SHIELDING MATERIAL AND METHOD OF PREPARATION"

Inventors: Judd Hamilton, Vernon Hamilton

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