



## Summit Reliance Group, Inc.

*Pioneering a Sustainable Future*

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### PRIVATE & CONFIDENTIAL

#### EXECUTIVE OVERVIEW OF ARMOR/SHIELDCRETE™ HIGH BLAST & BALLISTIC CONCRETE SOLUTIONS

Summit Reliance Group, Inc. (“**Summit**”) has exclusive rights to a proprietary advanced fiber technology that enables concrete to have flexibility/resilience and high blast and ballistic resistance (the “**Fiber Technology**”). The exclusivity is for various geographic territories, including India. Specifically, the Fiber Technology employs a mix of specially manufactured and treated polymer and other fibers (the “**Treated Fibers**”) that, when properly used, can be mixed uniformly and random-directionally throughout the concrete and provide the capability to:

#### **CUSTOM DESIGN CONCRETE MIXES AND COMPOSITE CONCRETE CONSTRUCTION ELEMENTS TO WITHSTAND IMPACTS AND SHOCKS GENERATED BY BOMB BLASTS AND MORTAR AND MANY OTHER TYPES OF PROJECTILES. (“Armor/ShieldCrete™” Solutions)**

Summit’s unique **Armor/ShieldCrete™ (“ASC”) Solutions** are created by integrating/bundling the Fiber Technology with the StructCrete™ Technology and various composites technologies. This provides the capability to custom design buildings and other structures employing ASC Solutions to provide much better protection for specific applications and threat profiles vs. the current and proposed brute-force and very expensive high-tech approaches (e.g., heavy rebar loading, thick walls/roofs, ultra high strength concrete, polyurea and steel fibers and/or steel, carbon and Kevlar meshes embedded in the concrete – individually or in any combination). **Armor/ShieldCrete™ and its derivatives are Summit trademarks.**

The Treated Fibers also minimize micro-cracking of the concrete, thus significantly limiting the amount of water that can filter into the concrete and corrode the embedded rebars, thus increasing the useful life and safety of the structure. And, the Treated Fibers do not create a health or environmental hazard (such as with asbestos) in the event the structure is damaged and the fibers are exposed. These features, along with the ability to use recycled materials in the concrete mix when available, qualify Armor/ShieldCrete™ as a "green" product.

The performance provided by the initial commercial Treated Fibers was demonstrated originally in laboratory impact tests at **Penn State University** and in field blast tests of concrete panels and blocks at **Fort Bragg** vs. conventional high strength concrete designed for blast resistance, including heavy rebar loading. The blast tests at Fort Bragg employed explosives that simulated **500 LB truck bombs** and **C-4 plastic explosives** attached to the test specimens to simulate direct blasts. While the panels and blocks with the Fiber Technology experienced some damage in these tests, the integrity of the specimens was maintained. Conversely, the conventional concrete specimens with blast resistance were totally destroyed upon first impact, sending pieces of concrete as shrapnel in all directions.

A short video presentation of the Fiber Technology and the tests at Penn State and Fort Bragg is provided at the following private access YouTube link. To view the video, right-click on the link, then click on “Open Hyperlink”. <https://www.youtube.com/watch?v=p40dWmuqslA&feature=youtu.be>.

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#### WORLD HEADQUARTERS

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The current advanced commercial Fiber Technology with superior performance compared to the original fibers was developed by an American company and tested for them by an independent American laboratory that specializes in such testing. Details and videos of these tests are available to qualified entities upon execution of a strict confidentiality agreement.

Summit, as appropriate, can arrange to conduct qualifying field tests of its Armor/ShieldCrete™ Solutions proposed for specific applications. Such approved tests would be contracted by the Party desiring the Solution and conducted by and in collaboration with major American military research and testing organizations such as the **Picatunny Arsenal**, located in New Jersey.

Armor/ShieldCrete™, when properly employed, can provide significant protection and enhanced performance for diverse types of applications in the current and growing high-threat environment, as well as for structures subjected to frequent and/or high dynamic loading. These include, for example, military, government, industrial and commercial buildings and structures, storage and other facilities, protective barriers, bridge and parking garage decks, roads, airport runways, dams/levees, and docks, piers and other marine structures.

We look forward to discussing your specific requirements.

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