The World's Most Amazing Cementitious Repair and Overlay Product!

Flex Without Failure

DOT Industrial Grade Mortar

- Fiber reinforced: Superior flexural and tensile strength as thin as 1/4”.
- High ductility, allowing the overlay or repair to ‘FLEX’ without failure.
- Resists de-icing salts, freeze/thaw.
- Superior tensile strain capacity over other cement based products for improved crack resistance.
- Superior bond strength to that of other fiber and acrylic based mortars.
- Ideal as a structural underlayment.
- Prevents the propagation of existing cracks through the surface.
- Highly impermeable and abrasion resistant.
- Unparalleled as a stampable overlay.

Distributed by Abbotsford Concrete Products 1 800 663 4091 www.pavingstones.com
GST Elephant Armor® DOT Industrial Grade Mortar is a single component, cementitious, fiber reinforced, ultra-fast setting concrete repair and overlay mortar that can be placed with a trowel, textured roller or other types of high volume application tools. This ultra-high performance mortar can be used for repair work, maintenance, or new construction. It offers high early strength (Over 4000 psi in 4 hours) and superior bond strength. It is shrinkage compensated, so only very minimal shrinkage may occur. This repair mortar will maintain a strong resistance to de-icing salts, freezing and thawing, and abrasion.

GST Elephant Armor® DOT Industrial Grade Mortar is ideal for repair and overlay use on: walkways, curbs, ramps, slabs, spalls, cracks, bridges, parking structures, tunnels, dams, industrial plants or anywhere an ultra-high strength concrete repair mortar is called for. This ultra-fast setting, low slump fiber-based mortar can be troweled, shaped or molded to a minimum thickness of ¼”.

Placer County Bridge Repair

Ideal product for vertical and overhead repairs.

Repair should last a lifetime.

Curb Repair

Damaged curb was repaired without deconstruction or forming.

Unprecedented performance after months of continuous traffic abuse.
GST International's Elephant Armor® DOT INdustrial Grade Mortar is designed never to crack, no matter what material it is applied over. That includes: concrete, asphalt, steel and wood with proper surface preparation. More importantly, it is the only product on the market that can be applied over existing cracks and not propagate those cracks through the new Elephant Armor® surface.

State Highway – Salt Lake City, Utah

Properly prepared concrete spalled areas were filled with Elephant Armor® DOT Industrial Grade Fast Setting Concrete Mortar. 4000 psi compressive strength in 4 hours allows FAST return to service of runway or road surface!

Specially engineered as a repair or overlay product that offers tremendous flexural and tensile performance as thin as 1/4".
The World's Most Amazing Cementitious Repair and Overlay Product!

Read all application instructions on the product label before you begin applying Elephant Armor®

The GST Elephant Armor® patented family of Ultra High Performance Mortars are single component, cementitious, fiber reinforced, medium to fast setting concrete repair and overlay products that can be placed with a textured roller (preferred method) or traditional placement tools. These ultra-high performance mortars, with their high early and superior bond strength, can be used for repair work, maintenance, or new construction. Applications include: walkways, curbs, ramps, slabs, spalls, cracks, bridges, ICF walls, parking structures, tunnels, dams, industrial plants or anywhere a high strength concrete repair mortar is called for.

Elephant Armor® is shrinkage compensated resulting in minimal shrinkage. Elephant Armor® maintains a strong resistance to de-icing salts, freeze-thaw cycles and abrasion. These varying slump mortars should be placed to a minimum thickness of ¼”.

Elephant Armor® Ultra High Performance Mortars can be used for structural monolithic overlays for interior and exterior applications. Elephant Armor® can also be used as a structural underlayment for other materials such as self-levelers, trowel coats and epoxies. It has unparalleled structural flexibility and tensile strength and can be used to create seamless floors without control or expansion joints.

Elephant Armor® Ultra High Performance Mortar/Overlay, Asphalt Repair and DOT Industrial Grade Mortar are available in 50 lb (22.6 kg) bags.

Elephant Armor® Ultra High Performance Mortar/Overlay and Asphalt Repair are also available in 10 lb (4.5 kg) pails. It is pre-packaged and comes ready to use. Its ease of use is unparalleled - all you have to do is add water. These flexible repair mortars/overlays have an average yield of:

- 50 lb bags: 9.3 sq. ft. at ¼” thickness; 18.75 sq. ft. at ¼” thickness, however yield in service will vary.
- 10 lb pails: 1.8 sq. ft. at ½” thickness; 3.7 sq. ft. at ¼” thickness, however yield in service will vary.

Elephant Armor® Ultra High Performance Mortar/Overlay and Asphalt Repair initial set is 20 to 60 minutes and final set is 1½ to 2 hours, depending on ambient temperature, humidity and sun exposure.

Elephant Armor® DOT Industrial Grade initial set is 20 to 30 minutes and final set is 1½ hours, depending on, ambient temperature, humidity and sun exposure.

Elephant Armor® set time can be extended with retarders, such as GST Delay, or mixing with heated water for a faster set time.

Specifications:

Elephant Armor® Ultra High Performance Mortars bond to all suitable concrete, masonry, and cementitious substrates. For full depth repairs onto an aggregate base, a fixed bi-directional geogrid must be properly installed prior to application. Please refer to www.gstinternational.com for more details.

<table>
<thead>
<tr>
<th></th>
<th>Flexural Strength</th>
<th>Splitting Tensile Strength</th>
<th>Compressive Strength</th>
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<tbody>
<tr>
<td></td>
<td>ASTM C 947</td>
<td>ASTM C 496</td>
<td>ASTM C 109 Cube</td>
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<tr>
<td>EA Mortar/Overlay</td>
<td>6.7 mpa (950 psi)</td>
<td>4.2 mpa (602 psi)</td>
<td>34.7 mpa (4940 psi)</td>
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<td></td>
<td>28 days</td>
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<td>56 days</td>
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<tr>
<td>EA Asphalt Repair</td>
<td>8.8 mpa (1259 psi)</td>
<td>5.9 mpa (838 psi)</td>
<td>45.8 mpa (6510 psi)</td>
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<tr>
<td></td>
<td>28 days</td>
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<tr>
<td>EA DOT</td>
<td>10.5 mpa (1493 psi)</td>
<td>7.9 mpa (1126 psi)</td>
<td>55 mpa (7837 psi)</td>
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<tr>
<td></td>
<td>7 days</td>
<td>28 days</td>
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Manufactured Under Patent in the USA by Global Sealer Technologies International

GST International, Sparks, NV (775) 829-2626

DO NOT BREATHE DUST, AVOID CONTACT WITH SKIN AND EYES!

Elephant Armor® Ultra High Performance Mortars

DANGER

Contains: Silica CAS#1317-95-9, Aluminosilicate Glass, Calcium Sulfoaluminate Cement CAS# 960375-09-1, Cement, Portland CAS# 65997-15-1, Quartz CAS# 14808-60-7

Causes skin and eye irritation. May cause cancer. May cause respiratory irritation. Avoid breathing dust/fumes/gas/mist/vapor/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF ON SKIN: Wash with plenty of water. If exposed, concerned or if irritation occurs, get medical advice/attention.

CALL A POISON CENTER IF YOU FEEL UNWELL.

Store locked up. Store in well ventilated place. Dispose of contents/container in accordance with local regulations.

WARNING

Proposition 65: One or more of the components contained in this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

SDS (available at www.gstinternational.com) for additional safety information regarding this product.

KEEP THIS PRODUCT OUT OF THE REACH OF CHILDREN

This product is made from the finest raw materials available and manufactured to proven formulation under strict quality control for its intended use. However, results obtained with the use of this product under a variety of conditions may depend on circumstances beyond our control. GST International, Inc. and the seller therefore disclaim any responsibility for damage of any kind. The only warranty extended, expressed or implied, is for defective material. GST International shall not be liable for any incidental, consequential or damages arising directly or indirectly from the use of Elephant Armor®.

Authorized Dealer:

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