

SHOTCRETE

Spray Applied Gunite

REPAIRING
SPRAY ON

MANUFACTURER:

Empire Blended Products, Inc.
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PRODUCT DESCRIPTION:

SHOTCRETE is a Portland Cement based product which contains fiberglass reinforcement, silica fume, graded sands and other additives. It is specifically designed to be pneumatically conveyed through a hose and projected at high velocity onto a surface. Properly applied, it is a structurally adequate and durable material that is capable of excellent bond with concrete, masonry and steel.

USES:

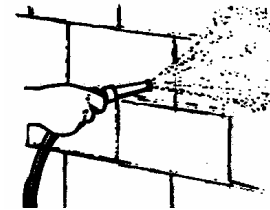
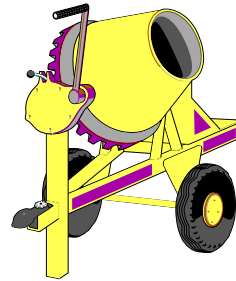
- New structures, such as roofs, walls, tanks, swimming pools, tunnels, sewers and shafts
- Coating over brick, concrete, masonry, rock and steel
- Encasement of structural steel for fireproofing and reinforcing
- Strengthening concrete slabs and concrete and masonry walls
- Repairing deteriorated concrete in structures
- Repairing earthquake and fire damage to concrete and masonry structures
- Rehabilitation of bridges, dams and other waterfront structures

ADVANTAGES:

- More economical than conventional concrete because of lesser forming requirements
- Capable of excellent bond with a number of materials
- High compressive and flexural strength
- Reduced rebound of material
- Increased single pass thickness in overhead application

Curing:

Damp curing is recommended, especially in conditions of extreme heat, dry or windy



INSTALLATION:

Surface Preparation:

Surfaces to be coated must be structurally sound, clean and free of dust, dirt, oils, paints and all other contaminants that will prevent proper bond. Substrate must be able to support the applied thickness of *SHOTCRETE*. Where *SHOTCRETE* is to be used for repairing deteriorated concrete, it is essential that all unsound material first be removed. Improper preparatory work is responsible for more *SHOTCRETE* failures in repair work than any other single factor. Dampen surfaces to be coated with water, being careful to avoid standing water.

Mixing:

SHOTCRETE is pumped dry and mixed at the spray nozzle with clean water using standard shotcrete equipment, such as an Allentown Rotary Gun Model GR-600 (or larger), the Allentown Model S-110 pod type unit or similar equipment.

Placement:

The quality of *SHOTCRETE* depends largely upon how skillfully it has been applied. Every effort should be made to maintain uniform control of mixing water, nozzle velocity and spray technique. *SHOTCRETE* should be applied in layers over previously placed *SHOTCRETE* before it has a chance to cure.

conditions.

Coverage:

One 50 pound bag will cover approximately 10 square feet at ½" thickness.

Packaging:

Available in 50 pound multiwall paper bags with moisture barrier and 3,000 pound bulk bags.

Color:

Light gray

TECHNICAL DATA:

Compressive Strength

7 Days 5,560 psi

28 Days 8,000 psi

Flexural Strength

28 Days 1,030 psi

Any combination of ingredients can be custom blended to individual specifications. Test results will vary with each particular formula.

LIMITATIONS:

Do not apply to frozen surfaces or if temperature will fall below 40°F within 24 hours.

CAUTION:

Contains Portland Cement CAS #65997-15-1. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water. If any product gets into the eye, rinse immediately and repeatedly with water. If ingested, **do not** induce vomiting and get prompt medical attention. Also contains Sand CAS #14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust. **Keep Out Of Reach Of Children.**

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Empire Blended Products or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.