

TIGERCRETE™ SP



High-Performance Flowable Trowelable Non-Shrink Grout



DESCRIPTION

Tigercrete™ SP is a fast setting, high-strength, non-shrink, non-metallic cementitious grouting compound. This material's unique formula of Portland cement, finely graded aggregates, shrinkage compensating materials and expansive cementitious binder allow it to maintain its strengths at various consistencies, from flowable to trowelable.

Tigercrete™ SP is designed for grouting and structural supports, which require non-shrink performance, combined with high strength. Tigercrete™ SP shows positive expansion when tested in accordance with ASTM C 827. Because of its unique non-bleeding and non-segregating characteristics at a fluid consistency, it is an ideal anchoring cement. Tigercrete™ SP complies with Corps of Engineers CRD-C-621 and ASTM C 1107.

USES

- Structural columns
- Machinery bases, bearing plates
- Anchoring bolts, posts and railings powerline stanchions,
- Manhole grade ring repairs and new pours
- Manhole ladder placement, Concrete pipe patch and repair
- Vertical concrete repair
- Sewer channeling
- T and Y joint construction
- Other related concrete repair applications

PRODUCT ADVANTAGES

- One step grout, just add water
- Contains no chlorides, heavy metals or gypsum
- High early strength requires no lengthy downtime
- Non-shrink from the time of placement
- Fast setting, 5-10 minute initial set at a mixing ration of 4 ½ quarts per 50 lbs.
- Usable from flow-able to trowel-able consistency
- Dimensionally stable, requiring no treatment at edges or open end
- Non-metallic and low-bleed

Typical Data for Tigercrete™ SP (Product and curing conditions at 73°F and 50% R.H.)	
Storage Conditions	Store in dry conditions at 40°F-95°F. Condition product material to 63°F- 76°F before using.
Shelf Life	One year in original, unopened packaging.
Color	Concrete gray
Freeze-Thaw Resistance (ASTM C 666A)	Excellent. Superior to concrete
Flexural Strength (ASTM C 580)	Resists vibration
Hardened Height Change (ASTM C 1090)	0.0 – 0.3%
Bond Strength (ASTM C 882)	28 days: 2,000 psi
Pull-Out Strength	7 days: 2,000 psi (Shear bond with 135 ksi threaded bar)
Effective Bearing Area	95% minimum
Pot Life (at 70°F)	4 ½ qts. water per 50 lb. bag: 5-10 minutes 5 ¼ qts. water per 50 lb. bag: 20 minutes 6 qts. water per 50 lb. bag: 30 minutes
Set Time (ASTM C 19) Mixing ratio of 6 qts. per 50 lbs.	Initial Set – approximately 30 minutes Final Set – 30-40 minutes
Compressive Strength (ASTM C 109) Mixing ratio 5 ¼ qts. per 50 lbs.	1 day: 4,000 psi 7 days: 8,100 psi 28 days: 8,500 psi

- Excellent flexural strength and vibration resistance
- Freeze-thaw resistance superior to concrete.
- Watertight, resists salt, many chemicals and oils.
- Pumpable and flowable.

YIELD/COVERAGE

- Yields approximately 0.45 cu ft. per unit

PACKAGING

- 50 lb. pails
- 50 lb. multiwall bags

SUBSTRATE

Concrete, mortar and masonry products

SURFACE PREPARATION

All dirt, oil, dust, foreign contaminants, peeling coating and laitance must be removed from surface prior to coating to assure a trouble free bond. Previously coated floors exhibiting a strong bond to surface can be coated over by sanding down the existing coating.

Refer to Garon's Master Surface Preparation & Moisture Guideline for complete details.

MIXING AREA

Select a suitable mix area and protect the floor surface from accidental resin spillage with a layer of cardboard and/or plastic sheet. Provide enough space for free unimpeded movement for mixing activity. The more comfortable your surroundings in the mix area, the less likely your mixers are

to have an error. Have all necessary tools ready: slow speed drills, mix and measure containers, etc. **Do Not Start Mixing Materials Until Ready for Immediate Use.** Once materials are thoroughly mixed, it must be used immediately. Prior to mixing apply masking tape wherever coating is intended to stop. Keyed edges must be installed at edge termination points to protect the material from chipping damage and to obtain a clean, straight edge.

MIXING

For smaller installations, hand mixing or drill mixing with a low speed, high torque drill (not to exceed 650 RPM) is acceptable. Add material to water and mix to a smooth, lump-free consistency. Do not mix for more than 2 minutes and install immediately after mixing. Mix enough material to permit continuous placement before any part of the **Tigercrete™ SP** has set, but do not mix more material than can be placed in 5 minutes. A good consistency for most concrete repairs requires 4-1/2 quarts of water or Thinset™ per 50 pounds of **Tigercrete™ SP**.

For a flowable grout, up to 6 quarts of water or Thinset™ per 50 pounds may be used. A flowable consistency is recommended for anchoring bolts, posts or rails.

APPLICATION

Tigercrete™ SP should be placed in accordance with standard grouting procedures and recommendations of ACI (American Concrete Institute). Place **Tigercrete™ SP** quickly and continuously. It may be pumped, poured, troweled or hand packed. Use chains, rods or tamping tools to tightly compact grout, completely removing all air voids, and being careful to completely fill all of the space being grouted. Strike off exposed areas and after setting, cut back or finish **Tigercrete™ SP** to final configuration. When anchoring bolts, posts or rails, crown **Tigercrete™ SP** slightly with a trowel or putty knife as it stiffens to aid water runoff.

CURING

Wet cure method is recommended. Allow a minimum of 24 hours before applying weight or stress.

CHEMICAL RESISTANCE

This product is resistant to most common chemicals. Please refer to **Garon's Chemical Resistance Chart** for actual resistance to specific chemicals/reagents.

SLIP & FALL HAZARDS

Ensure cured coating surface remains dry in pedestrian, equipment and vehicular areas to avoid slips and falls of people, equipment and vehicles. Use caution when coating is wet or when oil, hydraulic fluids, grease or other chemicals, fluids or agents that may produce a slick surface are present. Increase slip resistance by broadcasting an appropriate size aggregate into the wet coating during application in all areas where enhanced coating traction may be necessary. **Be aware of the full cure time. Do not open the area to normal service, harsh industrial chemical or abusive use before the coating is fully cured.**

CLEAN UP

Contain spills. Ventilate area. Use absorbent materials to collect. Dispose of according to local, state, federal regulations. Mixed components — uncured material can be removed with an approved xylene or keytone solvent. Cured material must be removed by mechanical means.

DISCLAIMER

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of Garon Products, Inc. Such recommendations and information set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject to change without notice. Consult www.garonproducts.com or call 800-631-5380 to obtain the most recent Product Data, MSDS and Application instructions. This is not a controlled document.

COLOR

Applied samples, color charts, illustrations and reproductions in catalogs and other Garon publications are not guaranteed to match the color shades of materials ordered. Colors or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure. Tire contact may cause discoloration. Slight lot-to-lot color variations may occur. Light or bright colors (white, safety yellow, etc.) may

require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide. When ordering to match a previous color, inquire if the same lot number or quality control number is still available. Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job.

FIRST AID

Skin contact- wash thoroughly with soap & water. If any product gets into the eye, rinse immediately and repeatedly with water for at least 15 minutes. For respiratory problems, remove person to fresh air. Wash clothing before re-use. Dust may cause skin or eye irritation. Wear

gloves, eye and nuisance protection. **Consult SDS** and call for medical care if necessary.

CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

LIMITATIONS

- Do not apply to frozen surfaces or if temperature will fall below 40°F within 24 hours.
- Apply at a minimum thickness of 1/4 inch.
- Be sure that minimum ambient temperature is 45°F and rising at time of application.
- The user is responsible for proper application.

IRRITANT

Suspect carcinogen – contains portland cement CAS #65997-15-1. Use only with adequate ventilation. Skin and eye irritant. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible. Also contains crystalline silica sand CAS #14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Use of NIOSH/MSHA approved respirator in case of high dust concentrations or exceedance of PELs. Use of chemical resistant gloves is recommended. Remove contaminated clothing.



FIRST AID

Skin contact- wash thoroughly with soap & 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.

CLEAN UP

Unmixed components—vacuum or scoop into appropriate container and dispose of according to local, state, federal regulations. Mixed components—uncured material can be removed with water. Cured material must be removed by mechanical means.

Keep container tightly closed. Not for internal consumption--consult SDS for additional information. This product is for professional use only.

KEEP OUT OF REACH OF CHILDREN

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