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Tectonite™ VRS Cement Information Sheet

Tectonite™ VRS Cement is a patented (US Patent No. 7,204,880) single-component, inorganic, high performance cement, appropriate for use as an all-season repair and anchoring material. The product adheres to concrete, masonry, metal, asphalt, wood and to itself, without the need of a bonding agent and may be used both inside and outside and in hot and cold temperatures.

DESIGN FORMULATION

Tectonite™ VRS Cement is formulated for repair and anchoring work that requires exceptional bonding, adhesion and strength. The product is ideal for jobs where availability of working time for the repair is limited or "down time" must be minimized. It works in warm and cold temperature extremes and will even set up under water. Refer to MATERIAL SAFETY DATA SHEET provided with each shipment.

Tectonite™ VRS Cement is packaged in 60 lb. plastic, re-sealable pails.

CHARACTERISTICS

- **Very High Strength** – Tectonite™ VRS achieves in about 30 minutes the compressive strengths attained by ordinary Portland cement in 28 days.
- **Very Fast Set** – Tectonite™ VRS sets in about 10-15 minutes (at 72°F) from the time of hydration and is traffic-ready in about 30 minutes.
- **A Tenacious Bond** – Tectonite™ VRS achieves, at a fraction of the cost of complicated epoxy cements, a mechanical bond with materials to which it is applied.

MIXING RATIOS

Mix six parts cement to one part water (by volume) to produce a mix that is barely pourable. Excess water may weaken the cement's ultimate strength. Slightly less water may be used for vertical or overhead applications. Add cement to water when mixing, not the other way around. When mixing large quantities, 30-60 lbs., it is recommended a heavy duty, twin shaft mixer be used. (Note: Because Tectonite™ VRS Cement may settle or consolidate in the bucket during shipping and transit, it may be necessary to "fluff" the cement by turning the bucket over several times prior to opening.)

APPLICATION INFORMATION

Add only enough water to create a thick, barely pourable, mixture in accordance with the mixing ratios below. Prior to mixing large volumes, mix a cup-sized quantity to get a "feel" for consistency and set time. Store in the plastic bucket with the lid tightly secured. Exposure to moisture and/or high humidity will affect performance and reduce the one year shelf life. Area(s) to be repaired must be clean. Remove standing water. For best results, product should not be used for patches less than ¼" deep. Saw cut repair area if possible and avoid feathering edges. If applying in multiple layers, allow cement to cool between pours. In warm weather (80-110 F°), cool repair area with cold water; in cold weather (30-45 F°), heat repair area until warm to the touch. No moist cure is required. Air cure and protect from inclement weather until final set.



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TYPICAL APPLICATIONS

High Traffic Areas	Irregular Repairs	Anchoring & Re-Anchoring
<ul style="list-style-type: none"> ➤ Roadways - Concrete & Asphalt ➤ Potholes & Curbs ➤ Runways & Aprons 	<ul style="list-style-type: none"> ➤ Broken Corners ➤ Chipped Steps & Abutments ➤ Cracked Areas 	<ul style="list-style-type: none"> ➤ Iron & Steel Anchoring ➤ Competitive with fast epoxies, less expensive ➤ Machinery Bases

TECTONITE™ VRS CEMENT SPECIFICATIONS

1Test	Results
ASTM C 109-93 Compressive Strength	3,500 PSI (19.2 MPa) in 30 minutes 5,500 PSI (27.8 MPa) in one hour 11,000 PSI (44.8 MPa) in 28 days
ASTM C 157, ASTM C 928-92a Length Change; 28 Day Dry, 28 Day Wet	-0.002%, -0.007%
ASTM C 78-84 Flexural Strength	576 PSI (4.0 MPa) in one hour 626 PSI (4.3 MPa) in one day 760 PSI (5.2 MPa) in 28 days
ASTM C 882-87 Bond Strength with Portland Cement 1 Day- Portland Cement Failed, Bond Held	2,000 PSI (13.8MPa)
ASTM 666-90 Freeze/Thaw Resistance 300 cycles	Freeze-thaw durable
NY 701-07 Anchor Pull Out Strength 1 hour Test - Anchor Failed	15,000 PSI (103.4 MPa)

WARRANTY: Tectonic Materials LLC warrants, for a period of one year from date of manufacture, that this product is manufactured to be free from defects. Tectonic Materials LLC disclaims all other warranties, expressed or implied, including the implied warranties of merchantability and fitness. This product is sold strictly "as is" and with "all faults". The entire risk as to the quality and performance of this product is with the buyer and, if the product proves defective, the buyer, and not the manufacturer, licensee, distributor, or retailer, assumes the entire cost of necessary servicing to repair. Tectonic Materials LLC'S sole liability for the warranty not disclaimed is limited to replacement of the product, and under no circumstances, shall Tectonic Materials LLC be liable for punitive, actual, remote, or consequential damages, whether direct or indirect, of any nature whatsoever. Tectonic Materials LLC shall not be responsible for the use of this product in a manner to infringe on any patent held by others.

Tectonite™ is a registered trademark
US Patent No. 7.204.880



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