



Anchoring Cement

Pourable Anchoring Cement

DESCRIPTION

Anchoring Cement is a blend of specialty cements, admixtures and proprietary aggregates. **Anchoring Cement** is designed with expansive compounds to reach final set in 20 minutes. As it sets, **Anchoring Cement** uses the expansive compounds to lock in bolts, posts, railings and other fixtures. **Anchoring Cement** is non-corrosive and non-rusting.

USES

Anchoring Cement is ideal for a wide variety of applications:

- Anchoring of wood or metal sign posts, fence posts, parking meters, dowels and rods
- Setting appliances, machinery, processing equipment and conveyors
- Bridge railings and other fixtures in concrete and masonry

BENEFITS

- Will not deteriorate with exposure to water
- Longevity: Resists freeze/thaw cycles
- Performance: Expands to lock into place
- Consistent: Strict Quality Control testing and standards

SURFACE PREPARATION

All surfaces in contact with **Anchoring Cement** shall be free of dirt, oil, grease, laitance and other contaminants that may act as bondbreakers. All unsound concrete should be removed to ensure a good bond. The hole to receive **Anchoring Cement** must be cored in sound concrete. The recommended hole diameter is 3 1/4 times the bolt diameter. Always allow sufficient hole diameter so the material will flow readily between the fixture and the wall of the cavity. Blow or vacuum out all loose particles and dust. ACI recommends that the area to be grouted be saturated for 24 hours before placement. Remove any standing water prior to placement. Surface should be saturated, surface dry (SSD).

APPLICATION THICKNESS

1-3" Neat, Up to 8" Extended

COVERAGE/YIELD

50 lbs (22.7 kg) will fill approximately 14 in³ (229 cm³) when 4.5 quarts mixing water is used.

MIXING

Mix using a heavy duty 1/2" (15 mm) (or larger) low-speed, corded drill and mixing paddle #6 per ICRI Technical Guideline 320.5. Pre-wet mixer and empty excess water. Place 3/4 of the required 4.5 quarts of cool, clean potable water in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes, adding the remaining water until a homogeneous mixture is achieved. For vertical applications, mix with just enough water for a puttylike consistency. Mix only enough material that can be placed within working time. Do not blend excess water as this will cause bleeding and segregation. Do not use any other admixtures or additives.

PLACING

When mixed to a fluid consistency, it is necessary to seal any openings where **Anchoring Cement** may escape. Pour a small amount of **Anchoring Cement** into the hole and work the bolt up and down a few times to eliminate any air pockets. Fill the balance of the hole pouring from one side only to ensure an even flow. Fixture should be supported until **Anchoring Cement** reaches final set. Once the work has begun, continue without interruption so the entire area to be grouted is completely filled before **Anchoring Cement** begins to set.

FINISHING & CURING

Follow standard ACI curing practices. Exposed surfaces should be cured with a membrane forming curing compound such as **US SPEC Maxcure Resin Clear**, **US SPEC Hydrasheen** or **US SPEC Hydrasheen 30%**.

STORAGE

Normal cement storage and handling practices should be observed. Store in an interior, cool, dry place. Shelf life is one year in original, unopened container.

LIMITATIONS

In addition to limitations already mentioned, please note the following. Do not apply when the surface or ambient temperature is below 40°F (4°C) or expected to fall below 40°F (4°C) within 48 hours. Do not use as a patching or overlay mortar or in unconfined areas. Setting time will speed up in hot weather and slow in cold weather. For hot and cold weather applications, contact your US SPEC manufacturer's representative.



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PHYSICAL PROPERTIES

All Physical Property testing performed in laboratory conditions of $73.5 \pm 3.5^{\circ}\text{F}$ ($23 \pm 2^{\circ}\text{C}$) and a relative humidity no less than 50% unless otherwise determined by the test method or specification. All results represent **Anchoring Cement** with 4.5 quarts water unless listed otherwise. Tests are conducted under standardized conditions for comparative purposes, and results may not be representative of performance under field conditions.

Property and Test Method	Results			
Compressive Strength ASTM C109	1 Day	3 Days	7 Days	28 Days
	2,300 psi (15.85 MPa)	3,000 psi (20.68 MPa)	4,000 psi (27.57 MPa)	5,000 psi (34.47 MPa)
Rate of Set ASTM C266	Working Time	Initial	Final	
	:10	:15	:20	
Pull-Out Strength ASTM E488*	Age	Tensile Strength		
	28 Days	21,672 lbs (3,180 psi)		

*Average of five tests. 4,000 psi concrete using #4 (1/2") Grade 60 rebar embedded 8" in 2" diameter core-drilled SSD holes. Rebar failed before Anchoring Cement.

DANGER

This product contains Crystalline Silica (CAS# 14808-60-7) and Portland Cement (CAS# 65997-15-1). Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust. Keep away from children. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in accordance with local/regional/national/international regulations.



WARNING: Cancer and Reproductive Harm -
www.P65Warnings.ca.gov

FIRST AID

If swallowed: Immediately call a poison center/doctor. Rinse mouth. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

MANUFACTURER/TECHNICAL SERVICE

Contact your US SPEC manufacturer's representative for the most current product information. Always read and follow the warnings and instructions on the most current technical data sheets and safety data sheets (SDS), available online at www.usspec.com.

US MIX

112 South Santa Fe Drive
Denver, CO 80223
Tel: 303.778.7227 Fax: 303.722.8426
Web Site: www.usspec.com

LIMITED WARRANTY: The manufacturer warrants that this product is free from defects in material and workmanship, and will perform per the manufacturer product literature in effect at the time of purchase. This warranty is for one (1) year from the date of purchase. Any implied warranty of merchantability or fitness for a particular purpose is limited to the duration of this express warranty. This warranty applies only if the product is used, in strict accord with the manufacturer published instructions. The sole and exclusive remedy under this warranty is replacement of the defective product or refund of the purchase price, at the manufacturer's option. CONSEQUENTIAL, SPECIAL, AND INCIDENTAL DAMAGES ARE NOT RECOVERABLE UNDER THIS WARRANTY. All claims under this warranty must be submitted to the manufacturer by calling 303-778-7227. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.