



Anchoring Cement

Waterproof, Pourable Anchoring Cement

DESCRIPTION

Anchoring Cement is a blend of specialty cements, admixtures and proprietary aggregates. This material is designed with expansive compounds to reach final set in 20 minutes and exceed the strength of conventional concrete in one day. As it sets, **Anchoring Cement** uses the expansive compounds to lock in bolts, posts, railings and other fixtures. **Anchoring Cement** is non-corrosive, non-rusting and 100% waterproof.

USES

Anchoring Cement is ideal for a wide variety of applications that include:

- 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

- 100% Waterproof: Will not deteriorate with exposure to water
- Strength: Attains higher strength than surrounding concrete
- 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 3/4 times the bolt diameter. Always allow sufficient hole diameter so the material will flow readily between the washer and the wall of the cavity. Blow or vacuum out all loose particles and dust. Dampen the wall of the substrate to ensure a good bond. Remove any standing water prior to placement.

MIXING

For best results, use a mechanical mixer with rotating blades. Pre-wet mixer and empty excess water. Place 4.5 quarts cool, clean, potable water per 50 lb pail in mixer, then add dry material. Mix on low RPM for a total of 3 to 5 minutes to achieve desired consistency. For vertical applications, mix with just enough water for a putty like 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.

PHYSICAL PROPERTIES

Compressive Strength (ASTM C-109*)

SET	1 DAY	3 DAYS	7 DAYS	28 DAYS
A NORMAL	3,000 psi (20.67 MPa)	4,500 psi (31.01 MPa)	5,300 psi (36.52 MPa)	5,700 psi (39.27 MPa)

Rate of Set (ASTM C-266*)

SET	INITIAL	FINAL
A NORMAL	:15	:22

A = 28 second flow cone method (ASTM C-939)

Height Change - Moist Cure Hardened (ASTM C-1090*)

AGE	% HEIGHT CHANGE
1 DAY	+0.00
3 DAYS	+0.00
7 DAYS	+0.06
28 DAYS	+0.07

*Notes: 73°F (22.8°C) 55% humidity
A = 4.5 qts

Packaging: 50 lb (22.7 kg) pail, 36 pails per pallet



Anchoring Cement

Waterproof, Pourable Anchoring Cement

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 the 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, Hydrasheen 15%** or **CS-25-1315**.

STORAGE

Normal cement storage and handling practices should be observed. Store material 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 use as a patching or overlay mortar or in unconfined areas. Normal conditions working time is 10 minutes. 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.

REGULATORY

Read and follow application information, precautions and Material Safety Data Information.

Right-to-know

This product contains Portland Cement (CAS#65997-15-1) and Crystalline Silica (CAS# 14808-60-7)

HMIS

Health 1, Fire 0, Reactivity 0

Prop 65

Warning! This product contains Crystalline Silica, a chemical known to the State of California to cause cancer or reproductive toxicity.

VOC Content

0 g/L

CAUTION

EYE AND SKIN IRRITANT

Contains Portland Cement (CAS# 65997-15-1) and Crystalline Silica (CAS# 14808-60-7). Do not allow contact with eyes or skin. Avoid breathing dust - silica may cause serious lung problems. There is limited evidence silica is a carcinogen. The use of gloves, goggles, dust masks and other protective clothing is recommended. If cement or sand particles get into eyes, rinse immediately with clean water and seek prompt medical attention.

TECHNICAL SERVICE

US MIX Co.

112 South Santa Fe Drive
Denver, CO 80223

Tel: 303.778.7227 Fax: 303.722.8426

Web Site: www.usspec.com

NOTICE OF LIMITED WARRANTY US MIX Co. (manufacturer) warrants to buyer that this product at the time and place of shipment is of good quality and conforms to the manufacturer's specifications in force on the date of manufacture when used in accordance with the instructions hereon. Manufacturer cannot warrant or guarantee any particular method of use, application or performance of the product under any particular condition. This limited warranty cannot be extended or amended by manufacturer's sales, people, distributors or representatives or by any sales information, specifications of anyone other than the manufacturer. Liability under this warranty is expressly limited to refund of the purchase price.

LIMITATION OF WARRANTIES AND LIABILITY Buyer assumes all risks associated with the use of this product. Manufacturer expressly disclaims all warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and all other warranties otherwise arising by operation of the law, course of dealing, custom, trade or otherwise. Buyer's exclusive remedy if this product is proven to be defective is limited to refund of purchase price by the manufacturer. Refund shall only be available if the buyer notifies manufacturer in writing within thirty days following discovery of any defect. Written notice shall be forwarded to US MIX Co. at 112 South Santa Fe Drive, Denver, Colorado 80223. No claim can be made twelve months after purchase of the product. Twelve months after the purchase manufacturer's duties with respect to the product and limited warranty shall be presumed to have been satisfied. Manufacturer in no event is liable for consequential damages.

Yield: 1 lb (0.45 kg) will fill approximately 14 in³ (229 cm³) when 4.5 quarts mixing water is used.