

Pourable, cement-based, non-shrinking, quick-setting anchoring cement

DESCRIPTION

SPECROCK is a one-component, waterproof, non-shrink, Portland cement-based anchoring cement that sets hard in 12-15 minutes. It expands as it sets and locks into the surrounding concrete.

SpecRock ES (extended set time) 60-75 minutes, allows the contractor more time for placement in hot weather applications conditions +90°F .

FEATURES/BENEFITS

- Quick setting; sets hard in 12-15 minutes; speeds production
- Rapid high strength up to 2000 psi. in 1 hour at 72°
- Controlled expansion as it sets
- Nonmetallic; maintains volume stability over time
- Waterproof, resistant to freeze/thaw provides durable, long-lasting applications
- Flowable, and pourable mixture; user friendly application
- Approved for exterior use and direct water exposure
- **SpecRock ES** has a longer work time for anchoring applications in hot weather.

APPLICATION

Recommended for use in concrete, masonry & stone for:

- Anchoring bolts
- Reinforcing rods
- Columns
- Railings
- Fences
- Bolts
- Small machines
- Hand rails
- Bridge railings
- Posts
- Signs
- Pulleys and motors

Surface Preparation

1. Drill holes in sound concrete wide enough to accept the head of bolts with their washers. As a general rule the hole should be 3 times wider then the object embedded. If concrete is not sound or of questionable strength, increase the recommended drill depth indicated.
2. Allow sufficient hole diameter so the material will readily flow between washer and the wall of the cavity.
3. For added strength "mushroom" the base of the hole by tilting the drill and working it back and forth during the drilling operation.
4. Blow or vacuum out all loose particles and dust, then dampen the walls of the hole with a swab to ensure a dust-free surface. Remove all standing water.

TYPICAL TEST DATA

Compressive Strength (ASTM C 109)	
1-hour after set	2000 psi
1 day	5000 psi
28 days	8000 psi
Expansion (ASTM C 157) moist cure = .05%	
Flexural Strength (ASTM C 78)	
28 days	1250 psi
Pull-Out Strength	
#5 Rebar, 7/8" dia hole, 6" deep (NYSDOT)	11,300 lbs
1" smooth rod, 2.5" hole, 3.5" imbed (ASTM E 488)	19,300 lbs

Mixing

Mix only enough material to apply in 8 minutes and to fill the hole. Mix with clean water approx. 16.7% by weight or 1 gal/50# to a uniform, lump-free pancake-batter consistency in a small plastic bowl or other suitable container. Do not over-water the material.

ANCHORING GUIDELINES

The following table specifies the recommended opening to be drilled so that the strength of the anchor will approximate the tensile strength of the steel bolt or cause concrete failure

Suggested Cement Grout Anchoring Parameters		
Diameter of Bolt/ Anchor	Diameter of Opening	Minimum Depth of Anchor
1/4"	3/4"	3"
3/8"	1 1/4"	4"
1/2"	1 1/2"	4"
5/8"	1 3/4"	6"
3/4"	1 3/4"	6"
1"	2"	8"
1 1/2"	2 1/2"	10"
1 3/4"	2 3/4"	12"

The minimum depths shown are based on holes drilled into sound concrete, properly cleaned and of at least 3000 psi compressive strength



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LIMITATIONS/PRECAUTIONS

DO NOT place at temperatures below 40°F (5°C) or if the temperature is expected to fall below 40°F (5°C) in the next twenty-four hour period.

As with all cementitious materials, avoid contact with uncoated aluminum to prevent adverse chemical reaction and possible product failure. Use treated aluminum (galvanized) or coat aluminum with a SpecChem Epoxy or bond coat with StrongBond and SpecRock.

PACKAGING

50 lb (22.7 kg) pails (.43cu-ft/pail), 36 pails per pallet

50 lb (22.7 kg) bags 60 bags per pallet

SHELF LIFE

18 months in pail units when properly stored and transported in unopened containers protected from moisture and dampness in a cool, clean, dry area between 45 and 90° F.

WARRANTY

NOTICE-READ CAREFULLY CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.



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