TECHNICAL DATA SHEET

SpecRock

Pourable, Cement-Based, Non-Shrink, 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, 60–75 minutes) gives the contractor more placement time in hot-weather applications above 90 °F (32 °C).

BENEFITS

- Quick setting; sets hard in 12–15 minutes to speed production
- Rapid high strength, up to 2,000 psi (13.8 MPa) in 1 hour at 72 °F (22 °C)
- Controlled expansion as it sets
- Nonmetallic; maintains volume stability over time
- Waterproof and freeze-thaw resistant for durable, long-lasting applications
- Flowable, pourable mixture for user-friendly application
- Approved for exterior use and direct water exposure
- SpecRock ES has a longer working time for anchoring in hot weather

USES

Recommended for anchoring the following in concrete, masonry and stone:

- Bolts and anchor bolts
- Reinforcing rods
- Columns
- Railings, handrails and bridge railings
- Fences and posts
- Signs
- Small machines
- Pulleys and motors

APPLICATION

Surface Preparation

1. Drill holes in sound concrete wide enough to accept the bolt head with its washer. As a general rule, the hole should be 3 times wider than the embedded object. If the concrete is unsound or of questionable strength, increase the recommended drill depth.

2. Allow sufficient hole diameter for the material to flow readily between the 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 drilling.

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.

Mixing: Mix only enough material to apply in 8 minutes and fill the hole. Mix with clean water at approximately 16.7% by weight, or 1 gal per 50 lb (3.8 L per 22.7 kg), to a uniform, lump-free pancake-batter consistency in a small plastic bowl or other suitable container. Do not overwater.

TECHNICAL DATA INFORMATION

Age	Compressive (C109)
1 hour after set	2,000 (13.8)
1 day	5,000 (34.5)
28 days	8,000 (55.2)

Values in psi (MPa).

Expansion (ASTM C157), moist cure 0.05%

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Flexural strength (ASTM C78), 28 days .....1,250 psi (8.6 MPa)

Pull-Out Strength

#5 rebar, 7/8" (22 mm) hole, 6" (152 mm) deep (NYSDOT)..... 11,300 lb (50.3 kN)

1" (25 mm) smooth rod, 2.5" (64 mm) hole, 3.5" (89 mm) embedment (ASTM E488) ..... 19,300 lb (85.9 kN)

Anchoring Guidelines

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

Bolt/anchor diameter	Minimum opening diameter	Minimum anchor depth
1/4" (6 mm)	3/4" (19 mm)	3" (76 mm)
3/8" (10 mm)	1-1/4" (32 mm)	4" (102 mm)
1/2" (13 mm)	1-1/2" (38 mm)	4" (102 mm)
5/8" (16 mm)	1-3/4" (44 mm)	6" (152 mm)
3/4" (19 mm)	1-3/4" (44 mm)	6" (152 mm)
1" (25 mm)	2" (51 mm)	8" (203 mm)
1-1/2" (38 mm)	2-1/2" (64 mm)	10" (254 mm)
1-3/4" (44 mm)	2-3/4" (70 mm)	12" (305 mm)

Minimum depths are based on holes drilled into sound, properly cleaned concrete of at least 3,000 psi (20.7 MPa) compressive strength.

PACKAGING

50 lb (22.7 kg) pail (0.43 cu ft / 12.2 L per pail), 36 pails per pallet

50 lb (22.7 kg) bag, 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 °F and 90 °F (7–32 °C).

LIMITATIONS

DO NOT place at temperatures below 40 °F (4 °C) or if the temperature is expected to fall below 40 °F (4 °C) within the next 24 hours.

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

Avoid hazards by following all precautions found in the Safety Data Sheet (SDS), product labels and technical literature. Please read this information prior to using the product.

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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