

21-30 Anchortite

Polyester anchoring grout

USES

Anchortite is used for grouting high-strength anchor bolts, starter bars in concrete and anchors in rock. Suggested applications for Anchortite include light and heavy rail track anchoring, setting of highway lighting standards, anchoring of precast median barriers and signs on highways. Handrails and guardrails, pipe protection stands around safety areas in factories and schools are excellent applications for Anchortite.

ADVANTAGES

- Economical - small amounts may be field mixed.
- High strength, fast setting.
- Bonds to concrete and steel.
- Resistant to most chemical attack.

DESCRIPTION

Anchortite is a two part, fast setting, free flowing polyester resin anchoring grout. It consists of liquid resin and specially formulated filler/hardener. It is specially designed for anchoring bolts and dowels in concrete, rock, brick and masonry.

APPLICATION INSTRUCTIONS

Anchor bolt hole preparations

Anchor bolt holes should be drilled using air or water flushed rotary percussive drilling equipment. If diamond core or non-percussive drills are used, the hole must be thoroughly scoured using a coarse nylon flue brush. Anchor bolt holes less than 36" deep should not be more than 1/2" larger in diameter than the diameter of the anchor bolts. Anchor bolts longer than 36" can have a hole diameter 3/4" larger than the bolt diameter. Fosroc Lokset Resin Cartridges may be considered for long bolt application.

Mixing

The mixing of a complete unit (all of the resin and filler/hardener) will result in a pourable grade grout. Small requirements of grout may be mixed at the ratio of one part resin to two parts filler/hardener by volume.

Application

Place Anchortite into prepared hole such that little or no air is trapped. After placing Anchortite in the hole, insert the bolt or bar. Insert the hardware with

a twisting action for maximum contact between the resin compound and anchor.

Clean-up

Clean tools and equipment immediately after use with Fosroc Solvent 102 or xylol. Wash hands and skin with soap or industrial hand cleaner, not with solvent.

PHYSICAL PROPERTIES

Compressive strength—ASTM C-109

At five times pot life @75°F: 10,000 psi (69 MPa)
At 7 days @75°F: 15,000 psi (103 MPa)

Tensile Strength—ASTM C-307

At five times pot life @75°F: 1400 psi (11 MPa)
At 7 days @75°F: 2000 psi (13.8 MPa)

CHEMICAL RESISTANCE

Anchortite resists oil, fats, mild acids, alkalies and fresh and salt water. If exposure to a specific chemical is anticipated, consult Fosroc directly for guidance.

POT LIFE

Consult the pot life/temperature chart for desired pot life and resin speed (next page).

All application and performance values are typical for the material but may vary because of variations in test methods, conditions and configurations.

SHELF LIFE

Anchortite has shelf life of 9 months from the date shown on the powder if stored in unopened containers under recommended conditions. Unused quantities of resin and filler/hardener may be tightly resealed and stored in a cool (60°F-70°F) dry place.

STORAGE

Store Anchortite in a cool (60°F-70°F) dry area with low humidity. Keep containers tightly closed.

PACKAGING & YIELD

A standard unit of Anchortite contains:

1 gallon can resin:	9 lbs	(4.1 kg)
1 bag/filler/hardener:	27 lbs	(12.2 kg)
Unit Yield:	0.3 ft ³	(8.5 litre)
Unit Weight	36 lbs	(16.33 kg)

SAFETY

Rubber gloves and/or barrier creams, protective clothing and goggles, a NIOSH/MHSA respirator (if TLV is exceeded) should be worn. Provide sufficient mechanical and/or local exhaust ventilation to maintain exposures below TLVs.

DISPOSAL

In case of spillage, absorb and dispose of in accordance with local, state, provincial and federal applicable regulations.

FIRE

Flammable! Flash point below 100°F (37.7°C).

SPECIAL PRECAUTIONS

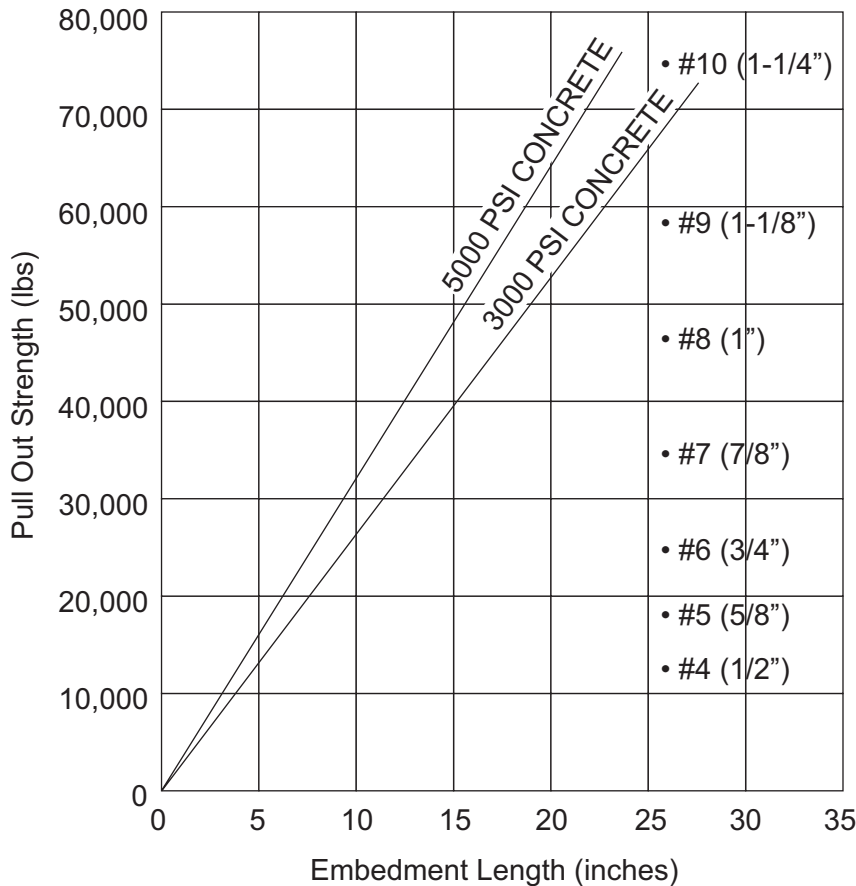
Since emptied containers retain product residues (vapour, liquid and/or solid) extreme caution should be exercised in their handling. Keep out of reach of children. Not for internal consumption. For industrial use only. Prior to use, consult MSDS and read warnings noted on product package for more information. Mixed product will generate heat upon curing.

ANCHORTITE - Slow & Fast Set

Specify resin speed when ordering

Set Time	Consistency	Ratio - Filler to Resin		Pot Life in Minutes at Specified Temperature				
		By Volume	By Weight	30 °F	45 °F	60 °F	75 °F	90 °F
Slow	Pourable	2:1	3:1	-	130	60	30	15
Fast	Pourable	2:1	3:1	45	25	12	7	3

ANCHOR PULL-OUT STRENGTH (TYPICAL)



* Typical Yield Strength, Grade 60 Rebar

On-site tests should be carried out to verify anchorage performance of various steel components used with 21-30 Anchortite. The chart at left represents typical anchorages with grade 60 rebar in 3000 and 5000 psi unreinforced concrete, for threaded and deformed 1/2" to 1-1/4" diameter bars.