

K A U F M A N

PRODUCT
INFORMATION

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SureGrout 106

Description

SureGrout 106 is a precision made, ready to use, non-shrinking, air entrained, non-metallic grouting compound for use in construction trades and shear key grouting. It is composed of a balanced blend of dry inorganic compounds, special cements, tough, high strength properly graded quartz aggregates, plus other proprietary ingredients. SureGrout 106 does not contain slow reacting and unpredictable aluminum powders.

SureGrout expands at a controlled rate to take up for the volumetric voids created by water evaporating from the mix. This insures high strength and intimate contact with surrounding surfaces and its resultant load-carrying ability.

SureGrout is unique in the fact that its special formulation requires less water to produce a workable mix than other grouts. This means that the important water/cement ratio is lower and consequently a denser, stronger grout is produced. At the same time, less water means less shrinkage compensation.

Uses

Structural columns, bearing plates, anchor bolts shear Key filling, precast columns, foundation underpinnings, prestressed cables, precast joints, cable anchorages, patching holes and cracks, post tensioned strands, machine pads.

Features

Air Entrained
Non-raveling
Non-rusting
Water and oil resistant
Non-corrosive
Pumpable
Precision blended
Economical

Technical Data

High Strength

Certified independent laboratory tests under field conditions show SureGrout 106 provides high strengths so high, that they exceed design requirements and provide a large margin of safety for field variation. The below tests were placed at normal consistency and not water immersed or fog cured for higher results.

Non-Shrink

All grouts should be non-shrinking to properly carry the intended load. Sand/cement grouts shrink and provide no load carrying ability. In order to compensate for shrinkage, some grouts over expand, which exerts undesirable upward pressure on base plates.

Pull Out Strength

All grouts should provide high bond strength to anchors and to the concrete in which they are embedded. Sure Grout provides over 35,000 psi when the anchor is placed in tension.

Packaging/Yield

50 lb. moisture resistant, 2 ply bag with polyethylene liner. Each bag yields .45 cu. ft. or 777 in³ when mixed normally. SureGrout is also available in 3,000 lb. bulk bags that yield 27 ft³.

Set Time (ASTM C-266)

Initial: 4 hours
Final: 5.5 hours

Compliances

ASTM	C-109	CRD	C-227
	C-157		C-621
	C-827		
	C-1107		

Mixing Ratios

Fluidity	Bags <u>SureGrout</u>	Quarts of <u>Water</u>
Normal (NY DOT 701-05)	1	2.75
Flowable (NY DOT 701-06)		1 3.09

Pumping

SureGrout 106 can be pumped successfully using a ChemGrout CG-550P Grout pump and mixer or similar pump.

Technical Information

(The following results were achieved under laboratory conditions.)

Shelf Life One year in original, unopened bags

Storage Conditions Store dry at 40-95°F

Color Concrete Gray

Working Time at 72°F 45 minutes

Compressive Strength, psi.

(ASTM C-109)

	2.75 qts. (Plastic)	3.09 qts. (Flowable)
1 Day	4,400	2,400
7 Days	7,800	6,400
28 Days	9,000	7,600

Expansion

(CRD C-151)

	2.75 qts. (Plastic)	3.09 qts. (Flowable)
3 days	.01%	.01%
7 days	.06%	.06%
14 days	.06%	.06%
28 days	.06%	.06%

Early Height Change

(ASTM C-157, maximum 4%.)

+0.68%

Flexural Strength, psi.

(ASTM C-293)

1,000-1,400

Freeze Thaw Resistance

AASHTO T 106

Subjected to 25 cycles

-10F – +70F in 10% NaCl Solution

Max 3% loss required.

1.00%

Bond Strength, psi.

(ASTM C-882)

28 Days 1,800-2,000

Tensile Splitting Strength, psi.

(ASTM C-496)

28 Days 500-600

Pull Out Strength

(ASTM E-488)

Number 6 Grade 60 rebar embedded 6 3/4 " in a 7/8" hole drilled into 4,000 psi. concrete. A maximum load of 37,000 lbs. was obtained.

Directions

See separate sheet with complete directions titled, *Recommended Field Procedures for SureGrout*.

Specifications

All grouting shall be done with SureGrout as manufactured by Kaufman Products, Inc. Baltimore, Maryland. The grout shall be mixed according to directions furnished by the manufacturer and installed in accordance with their directions. Perform all grouting work in accordance with the recommendations of the American Concrete Institute for mixing and placement of concrete.

Contractors using this product are encouraged to review "*Recommended Field Procedures for SureGrout*". Read Material Safety Data before using.

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