

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

SureGrout 106 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, precast joints, cable anchorages, patching holes and cracks, and 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. To compensate for shrinkage, some grouts over expand, which exerts undesirable upward pressure on base plates.

### Packaging/Yield

50 lb. moisture resistant, 2 ply bag with polyethylene liner. Each bag yields .45 cu. ft. or 777 in<sup>3</sup> when mixed normally. SureGrout 106 is also available in 3,000 lb. bulk bags that yield 27 ft<sup>3</sup>.

### 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 SureGrout	Quarts of Water
Plastic (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-030 or higher grout pump and mixer or similar system.

**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**

(ASTM C-1090)

	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**

+0.68%

(ASTM C-827, maximum 4%.)

**Flexural Strength, psi.**

1,000-1,400

(ASTM C-293)

**Freeze Thaw Resistance**

(AASHTO T 161)

Weight Loss @ 25 Cycles 1.00%

**Freeze Thaw Resistance**

(ASTM C 666, Procedure A)

Durability Factor @ 300 Cycles 96.7%

Mass Loss @ 300 Cycles 0.0%

**Bond Strength, psi.**

(ASTM C-882)

28 Days 1,800-2,000

**Tensile Splitting Strength, psi.**

(ASTM C-496)

28 Days 500-600

**Directions**

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

**Specifications**

All grouting shall be done with SureGrout 106 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 *Safety Data Sheet* before using.

**Technical Information**

Test results were achieved under laboratory conditions. Statistical variations will occur based upon mixing methods, temperature & humidity, test methodology, site conditions, curing conditions, application methods, and equipment.

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