

# K A U F M A N

PRODUCT  
INFORMATION

KAUFMAN  
PRODUCTS  
INC.

3811 CURTIS  
AVENUE

BALTIMORE,  
MARYLAND  
21226-1131

410-354-8600  
800-637-6372

[www.kaufmanproducts.net](http://www.kaufmanproducts.net)

## SureGrout

### Description

SureGrout is a precision made, ready to use, non-shrinking, non-metallic grouting compound for use in construction trades and plant maintenance. 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 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 all other non-metallic grouts. This means that the important water/cement ratio is lower than other grouts 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  
Precast columns Foundation underpinnings  
Prestressed cables Precast joints cable  
anchorage Patching holes and cracks Post  
tensioned strands Machine pads. Tilt-up panels

### Features

Non-raveling  
Non-rusting  
Water and oil resistant  
Non-corrosive  
Pumpable  
Precision blended  
Economical  
Non-bleeding  
Non-staining

### Technical Data

#### High Strength

Certified independent laboratory tests under field conditions show SureGrout 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, 4 ply bag with polyethylene liner. Each bag yields .45 cu. ft. or 777 in<sup>3</sup> when mixed normally. SureGrout 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 <u>SureGrout</u>	Quarts of <u>Water</u>
Fluid	1	4.2
Flowable	1	4.0
Normal	1	3.6
Dry-Pack	1	2.9

### Pumping

SureGrout 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.)

<b>Shelf Life</b>	One year in original, unopened bags
<b>Storage Conditions</b>	Store dry at 40-95°F
<b>Color</b>	Concrete Gray
<b>Working Time at 72°F</b>	45 minutes

## Compressive Strength Test Results, psi.

(ASTM C-109 with 2" cubes.)

	2.8 qts. (Dry Pack)	3.6 qts. (Normal)	4.0 qts. (Flowable)	4.2 qts. (Fluid)
1 Day	7,300	5,300	5,200	4,200
7 Days	10,500	7,800	7,500	7,400
28 Days	11,500	9,000	8,500	8,000

## Expansion Test Results

(CRD C-621)

	2.8 qts. (Dry Pack)	3.6 qts. (Normal)	4.0 qts. (Flowable)	4.2 qts. (Fluid)
3 days	.01%	.01%	.01%	.01%
7 days	.06%	.06%	.06%	.06%
14 days	.06%	.06%	.06%	.06%
28 days	.06%	.06%	.06%	.06%

## Early Height Change

(ASTM C-827, maximum 4%.)

+ .59%

## Flexural Strength, psi.

(ASTM C-293)

1,000-1,400

## 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.