

K A U F M A N

PRODUCT
INFORMATION

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SureGrout 5000

Description

SureGrout 5000 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 5000 is chemically engineered to achieve over 5,000 psi. in compressive strength in just twenty-four hours, when mixed at a fluid consistency. This unique feature speeds up the pace of construction considerably.

SureGrout 5000 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 5000 is unique in the fact that its special formulation requires less water to produce a fluid mix than other non-metallic grouts. This means that the important water/cement ratio is lower, and consequently a denser and stronger grout is produced.

Uses

Structural Columns, Bearing Plates, Anchor Bolts, Precast Columns, Foundation Underpinings, Precast Joints, Cable Anchorages, Machine Pads, Shear Keys, Tilt-Up Panels

Features

Non-Raveling
Non-Rusting
Water and Oil Resistant
Non-Corrosive
Pumpable
Precision Blended
Economical
Non-Bleeding
Non-Staining
Rapid Strength Gain

Technical Data

High Strength

Certified independent laboratory tests under field conditions show SureGrout 5000 provides 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, 4 ply bag with polyethylene liner. Each bag yields .45 cu. ft. or 777 in³ when mixed normally. SureGrout 5000 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

Set Time (ASTM C-191)

Initial: 4.5 hours
Final: 6.5 hours

Compliances

ASTM C-109	ASTM C-1107
C-157	CRD C-227
C-827	CRD C-621
C-942	

Mixing Ratios- Water per bag of SureGrout 5000

<u>ASTM Designation</u>	<u>Quarts</u>
Plastic	2.37
Flowable	2.60
Fluid	3.36

Pumping

SureGrout 5000 may be pumped successfully using a ChemGrout CG-030 or higher grout pump and mixer or a similar system.

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 Test Results, psi.

(ASTM C-109 with 2" cubes.)

	2.37 qts. (Plastic)	2.60 qts. (Flowable)	3.36 qts. (Fluid)
1 Day	6,000	6,000	5,000
7 Days	9,000	9,000	8,000
28 Days	11,000	11,000	9,000

Compressive Strength Test Results, psi.

(ASTM C-942 (ASTM C-109 with 2" Cubes Restrained))

	2.37 qts. (Plastic)	2.60 qts. (Flowable)	3.36 qts. (Fluid)
1 Day	6,700	6,500	5,600
7 Days	9,600	9,500	8,700
28 Days	11,700	11,700	9,500

Height Change Moist Cured

(ASTM C-1090)

	2.37 qts. (Plastic)	2.60 qts. (Flowable)	3.36 qts. (Fluid)
3 days	.01%	.01%	.01%
7 days	.06%	.06%	.06%
14 days	.06%	.06%	.06%
28 days	.06%	.06%	.06%

Early Age Height Change

(ASTM C-827, maximum 4%)

+.02%

Flexural Strength, psi.

(ASTM C-293)

1,000-1,400

Bond Strength, psi.

(ASTM C-882)

28 Days 1,800-2,000

Bond Strength, psi.

(Virginia DOT Test Method 41)

3,000

Tensile Splitting Strength, psi.

(ASTM C-496)

28 Days 500-600

Directions

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

Specifications

All grouting shall be done with SureGrout 5000, 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 complete 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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