

GROUTS

Master Format #: 03 62 13

TAMMSGROUT SUPREME

HIGH STRENGTH, NON-SHRINK GROUT



EUCLID CHEMICAL

PACKAGING

55 lb (25 kg) bags and pails
Code: TR5106655

APPROXIMATE YIELD

55 lb (25 kg) bag: 0.45 ft³ (0.013 m³)
when mixed with 1.0 gal (3.8 L) of
potable water.

CLEAN UP

Clean tools and equipment with water
before the material hardens.

SHELF LIFE

1 year in original, unopened package

SPECIFICATIONS AND COMPLIANCES

- CRD-C 621, Corps of Engineers specification for non-shrink grout
- Shows positive expansion when tested in accordance with ASTM Specification C1090, "Standard Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic-Cement Grout"
- ASTM C1107, "Standard Specification for Packaged, Dry, Hydraulic-Cement Grout (non-shrink)"

DESCRIPTION

TAMMSGROUT SUPREME is specially designed for use where high compressive strength and high fluidity are required. It is formulated as a natural aggregate system with a shrinkage-compensating binder and increased compressive strength. TAMMSGROUT SUPREME provides consistent and exacting performance in critical grouting operations.

PRODUCT CHARACTERISTICS**FEATURES/BENEFITS**

- High strength for maximum load bearing
- Non-shrink with minimum positive expansion for high-tolerance performance
- Non-bleeding and non-segregating at a fluid consistency
- Does not contain any chlorides or additives which may contribute to corrosion of base structure
- Total shrinkage compensation provides a maximum bearing surface for the greatest overall support
- Rapid strength gain to minimize turnaround time for equipment re-grouts

PRIMARY APPLICATIONS

- Interior or exterior
- Heavy duty grouting of machinery and equipment
- Structural columns
- Crane rails
- Pump & machine bases
- Bearing plates

APPEARANCE

TAMMSGROUT SUPREME is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten up substantially as it cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Test Method	Test Property	Plastic Consistency	Flowable Consistency	Fluid Consistency
ASTM C230/ ASTM C939	Flow Rate	100% (Flow Table)	130% (Flow Table)	< 30 seconds (Flow Cone)
ASTM C109M* 2 in (50 mm) cubes	Compressive Strength	1 day 7,000 psi (48 MPa) 3 days 9,000 psi (62 MPa) 7 days 10,500 psi (72 MPa) 28 days 13,000 psi (90 MPa)	1 day 6,000 psi (41 MPa) 3 days 8,500 psi (59 MPa) 7 days 10,000 psi (69 MPa) 28 days 12,000 psi (83 MPa)	1 day 5,000 psi (34 MPa) 3 days 7,500 psi (52 MPa) 7 days 9,000 psi (62 MPa) 28 days 11,000 psi (76 MPa)
ASTM C1090	Expansion	3 days . . . 0.08 % 28 days . . . 0.09 %	3 days . . . 0.02 % 28 days . . . 0.04 %	3 days . . . 0.03 % 28 days . . . 0.05 %
ASTM C191	Setting Time	Initial . . . ~ 3 hrs Final. . . . ~ 5 hrs	Initial . . . ~ 4 hrs Final. . . . ~ 6 hrs	Initial . . . ~ 5 hrs Final. . . . ~ 7 hrs

*See ASTM C1107 Section 11.5

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DIRECTIONS FOR USE

Note: The contractor and engineer are encouraged to consult and review the Euclid Chemical bulletin: “Cementitious Grout Application Guide”. The document offers instructions detailing the general installation of Euclid Chemical manufactured cement-based grout products. Important: If the contractor is not familiar with standard grout placement techniques, a pre-job meeting is suggested to review the project details unique to the particular job. Contact your local Euclid Chemical representative for additional information.

Mixing Water Guide gal (L)/bag

Consistency	Estimated Water Content, 55 lb bag*	Mix Time
Fluid	1.0 to 1.1 (3.8 to 4.2 L)	3 min.
Flowable	0.8 to 0.9 (3.0 to 3.4 L)	3 min.
Plastic	0.7 to 0.8 (2.6 to 3.0 L)	3 min.

*Do not add water in an amount that will cause bleeding or segregation. More or less water may be required to achieve a < 30 second flow or the desired placing consistency, depending on temperature and other variables. Do not add sand or cement to the grout since this action will change its precision grouting characteristics.

TAMMSGROUT SUPREME may will be placed at a maximum depth of 5” (12.7 cm) per lift.

Application: See the “Cementitious Grout Application Guide” for installation means and methods.

PRECAUTIONS/LIMITATIONS

- Store materials in a dry place.
- Do not add sufficient water to promote bleeding of the grout.
- Use only potable water for mixing, and do not add admixtures or fluidifiers.
- Do not use this product at a flow cone rate of less than 20 seconds if checking flow rate on the job site (see CRD-C 611 or ASTM C939 for flow cone method).
- Do not use material at temperatures that may cause premature freezing.
- Rate of strength gain is significantly affected at temperature extremes.
- Keep the grout from freezing until a minimum strength of 3000 psi (21 MPa) is reached.
- When necessary, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting” or ACI 306R “Guide to Cold Weather Concreting”.
- Do not use as a topping.
- Shoulder cracking may occur on wide shoulders, improperly cured shoulders, or at stress points such as shimpacks, bolts or plate stiffeners. These cracks are of no structural significance.
- Proper curing is required.
- In all cases, consult the Safety Data Sheet before use.

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