

1714 – CEMENTITIOUS GROUT

SECTION 1714

CEMENTITIOUS GROUT

1714.1 DESCRIPTION

This specification covers cementitious grouts used to bond anchor bolts and reinforcing steel to hardened concrete. This includes self-contained grouts, which are cementitious materials encapsulated in a water permeable layer.

1714.2 REQUIREMENTS

- a. Provide material that complies with ASTM C 1107 or Corps of Engineers CRD-C 621.
- b. For self-contained grouts, provide material complying with **TABLE 1714-1**:

TABLE 1714-1: SELF-CONTAINED GROUTS		
Property	Test Method	Requirement
Soaking Time		1 to 3 min.
Initial Set Time, min.	ASTM C 1102	20 min.
Compressive Strength 28-day min.	ASTM C 39	4,000 psi
Shrinkage	ASTM C 1090	0.00%
Expansion	ASTM C 1090	1.5%
Pull Out Strength	ASTM E 488	9,000 lbf
Freeze-Thaw, min.	ASTM C 666, 300 cycles	95%

1714.3 TEST METHODS

Test as specified in **subsection 1714.2**.

1714.4 PREQUALIFICATION

a. Manufacturers interested in prequalifying material under **subsection 1714.2a**. must submit the following to the Bureau of Materials and Research:

- (1) A complete description, literature, and set of instructions and recommendations,
- (2) A copy of test results performed in accordance with ASTM C 1107 or CRD-C 621,
- (3) Certificate stating results comply with ASTM C 1107 or CRD-C 621, and
- (4) Material Safety Data Sheets (MSDS).

b. Manufacturers interested in prequalifying material under **subsection 1714.2b**. must submit the following to the Bureau of Materials and Research:

- (1) A complete description, literature, and set of instructions and recommendations,
- (2) A copy of test results performed as outlined in **subsection 1714.2b.**,
- (3) Certificate stating results comply with the values outlined in **subsection 1714.2b.**, and
- (4) Material Safety Data Sheets (MSDS).

c. The Bureau of Materials and Research will maintain a list of qualified materials. Products will remain on the list as long as field performance is satisfactory.

1714.5 BASIS OF ACCEPTANCE

Prequalification as specified in **subsection 1714.4**.

Receipt and approval of a Type C certification as specified in **DIVISION 2600**.

Visual inspection by the Field Engineer.