



Celcore® GeoTechnical Fills

1. Scope of work

The certified Celcore applicator shall furnish labor, materials, equipment and supervision for the installation of Celcore GT Fills in accord with the Plans and Specifications.

2. Materials

- a. Celcore Foam Concentrate shall be supplied by Celcore, Inc. Black Mountain, NC and shall comply with ASTM C 869 when tested in accordance with ASTM C 796.
- b. Portland Cement shall comply with ASTM C 150, Type I, II or III. Pozzolans and other mineral admixtures may be used when specifically approved by Celcore Inc
- c. Mixing Water shall be potable and free from deleterious amounts of acid, alkali, salts, oils and organic materials which would adversely affect the setting and/or strength of the GT Fill.
- d. Admixtures may be used when specifically approved by Celcore Inc.

3. Mix Design

Mix design shall be in accordance with Celcore Inc.'s recommendations for a cast density (at point of placement) of _____ pcf ± _____ pcf with a minimum compressive strength of _____ psi at 28 days.

4. Mixing and Placing

Celcore GT Fills shall be job site batched, mixed and placed with equipment approved by Celcore Inc. Multilayer casting is an acceptable method of installation.

5. Testing

Four (4) test specimens shall be taken at the point of placement for each days pour. Specimens shall be prepared, handled, cured and tested for compressive strength in accord with ASTM C 495 except that the specimens shall not be oven dried prior to compression testing.

6. Special considerations

Contact Celcore Inc. for design assistance and application recommendations

Class	Cast Density (pcf)	Air Dry Density (pcf)	Compressive Strength Min. (psi)	Ultimate Bearing Capacity (Tons per sq.ft.)
I	18 – 24	14 – 20	20	1.4
II	24 – 30	20 – 26	50	3.6
III	30 – 36	26 – 32	80	5.8
IV	36 – 42	32 – 38	140	10.1
V	42 – 50	38 – 44	200	14.4
VI	50 – 80	44 – 70	350	25.2

Actual physical properties will vary with mix designs. The cementitious material in the above designs is all Type I, portland cement.