

## SECTION 1003 -- FLOWABLE FILL

### 1003.01 -- Description

Flowable fill shall be a mixture of cement, fly ash, fine sand, water, and air having a consistency which will flow under a very low head.

### 1003.02 -- Material Characteristics

1. The approximate quantities of each component per cubic meter of mixed material shall be as shown in Table 1003.01.

**Table 1003.01**

Flowable Fill Composition	
Cement (Type I or II)	30 kg
Fly ash	120 kg
Fine sand	1600 kg
Water (approx.)	250 kg
Air content (approx.)	10%

2. Actual quantities shall be adjusted to provide a yield of 1 m<sup>3</sup> with the materials used.

3. Approximate compressive strength should be 0.6 to 1.2 MPa.

4. Fine sand shall be an evenly graded material having not less than 95 percent passing the 4.75 mm sieve and not more than 5 percent passing the 75 µm sieve.

5. Mixing and handling of the material shall be in accordance with Section 1002.

### 1003.03 -- Acceptance Requirements

1. Flowable fill is accepted based on it meeting the requirements in this Section.

2. Cement must be on the NDR Approved Products List.