



SPECIFICATIONS

MEARL TRANSPORT™

For Mine Tailings Transport

1. GENERAL

1.1 DESCRIPTION

1.1.1 Work Included

(A) This work shall consist of batching, mixing, and placing foam for the transportation of sand or tailings indicated by the specifications or as directed by the engineer.

1.2 QUALITY ASSURANCE

1.2.1 Use labor that is familiar with the specified requirements and the methods for proper performance of this work

1.3 SUBMITTALS

1.3.1 The prime contractor shall list the product and shall not employ any product without the prior approval of the engineer or manufacturer.

2. PRODUCTS

2.1 MATERIALS

2.1.1 Foam Liquid Concentrate: Mearl Transport shall be supplied by Cellular Concrete Solutions.

2.1.2 Sand: the sand shall comply with ASTM C 33 and consist of graded minus 3/8 concrete sand. When approved by the project engineer or manufacturer, alternative material could be used if no more than 20 percent of the fines are retained on the 1/2 inch screen.

3. PROPERTIES

3.1 The foam when mixed with the sand material shall facilitate 48-72 hours of lateral movement when placed without any significant bubble degradation. The minimum amount of foam per cubic yard of sand shall be seven cubic feet as determined per ASTM C 29. The foam/sand mixture must collapse under static pressures of greater than 5 psi within 24 hours and achieve a minimum of 93 % compaction per ASTM C 29.

4. EXECUTION

4.1 Use only the approved job site proportioning, mixing, and placing equipment recommended by Cellular Concrete Solutions.

4.2 MIXING

4.2.1 Mix the materials according to the specification and convey to the location of final placement.

4.2.2 The foam shall be mixed in the sand using a drum type mixer, volumetric mixer, continuous screw auger, or pug mill. To prevent bubble absorption, water shall be added at a minimum of 3% by weight of sand.

4.3. CONVEYING

4.3.1 The foam/sand mixture shall be placed using any standard concrete pump or by gravity.

4.3.2 The foam/sand mixture will be placed until the boreholes are filled to rejection

4.3.3 After a period of 24 hours, any void left by collapsing of the material shall be filled with a foam/sand mixture.

4.4 BOREHOLES

4.4.1 Boreholes holes shall be a minimum of 3 inch Diameter with a spacing not to exceed 50 feet.