

ABSTRACTSEGMENT MANUFACTURING METHOD USING
HIGH FLUIDITY CONCRETE AND COVERED FORMWORK

Object: To provide an economically advantageous and workably excellent concrete segment manufacturing method, wherein there arises no bubble crater on a finished product, a trowel finishing becomes unnecessary, labor saving in a surface finishing work is attained, a vibration squeezing at the time of concrete placing being made unnecessary, there is no undesirable influence on the neighboring environment and simplification of a formwork is attained.

Solving means: A high fluidity concrete, mixed in a water cement ratio of 30 to 40% and a fine aggregate rate of 45 to 55% and with a small amount of admixture so that a slump flow value is 65 ± 5 cm, a V funnel flow-down time is 25 ± 15 seconds and an air amount is $2 \pm 1\%$, is poured in a steel-made formwork for manufacturing a segment comprising a formwork cover 2 provided with air holes 2a and a permeable finishing element 6.

Selected figure: Fig. 2