

【ABSTRACT】

The present invention relates to an apparatus for reducing a temperature difference generated in mass concrete, the apparatus including: a main water reservoir adapted to store cooling water thereinto; pipes disposed inside a form in such a manner as to be buried in the interior of the mass concrete at the time of concrete casting, the pipes being spaced apart from each other by a given distance in such a manner as to be passed through the mass concrete and being connected to the main water reservoir from which the cooling water is supplied thereto; hoses disposed on the outer surface of the mass concrete in such a manner as to be connected to the output ends of the pipes from which the heated cooling water is supplied thereto; supply pipes connected to the auxiliary water reservoir to supply the heated water to the outer surface of the mass concrete; and a control unit operated to supply the cooling water from the main water reservoir to the pipes if the temperature of the interior of the mass concrete is more than a set temperature and to supply the heated water from the auxiliary water reservoir to the supply pipes if the temperature of the interior of the mass concrete is less than the set temperature.

Figure 2