

## ZZZZ221 – Validation of a calculation of chaining thermo-hydradation

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### Summary:

The objective of this axisymmetric CAS-test is to check the calculation of a chaining thermohydration. The concrete structure studied is made up of two liftings.

The principal stages of the chaining are the following ones:

- Stage 1: Calculation Thermohydration on the first lifting with the operators:
  - `DEFI_MATERIAU (THER_HYDR),`
  - `THER_NON_LINE (COMPORTEMENT=' THER_HYDR'),`
- Stage 2: Définition of the initial conditions on the two liftings starting from the results of the first lifting and initial values for the second lifting.
  - `CREA_CHAMP (OPERATION=' AFFE', NOM_CMP=' TEMP')`
  - `CREA_CHAMP (OPERATION=' AFFE', NOM_CMP=' HYDR_NOEU')`
- Stage 3: Calculation Thermohydration on the 2 liftings with the operators:
  - `DEFI_MATERIAU (THER_HYDR),`
  - `THER_NON_LINE (COMPORTEMENT=' THER_HYDR'),`

The tests of not-regression are carried out on the temperature and the hydration.

This documentation is voluntarily brief.