ZZZZ284 - Validation of options CHAR_MECA_HYDR_R and Summarized

CHAR_MECA_SECH_R:

This test is a data-processing test. It validates elementary computation options CHAR_MECA_SECH_R and CHAR_MECA_HYDR_R by analogy with option CHAR_MECA_TEMP_R

There exists only one modelization (A).

1 Principle of the test

1) One carries out an unspecified thermal computation, from where a field of temperature.

2) One uses this field of temperature like “source” of strain:
   - thermal : `eps = + ALPHA * (TEMP - VALE_REF)`
   - of hydration : `eps = - B_ENDOGE * HYDR`
   - of drying : `eps = + K_DESSIC * (SECH - VALE_REF)`

Note:
- *It is the same field of temperature (`TEMP`) which plays the part of `TEMP, HYDR` and `SECH`.*
- *Coefficients `ALPHA, B_ENDOGE, K_DESSIC, TEMP_REF` and `VALE_REF` (temperature and drying) are selected to obtain the same strain.*

1) One solves 3 mechanical problems with the 3 preceding loadings. One must obtain the same field of displacement for 3 computations.

2 Reference solution

the 1st computation (with the temperature) gives the solution of “reference” for two other computations.
Two other computations validate `CHAR_MECA_HYDR_R` and `CHAR_MECA_SECH_R`.