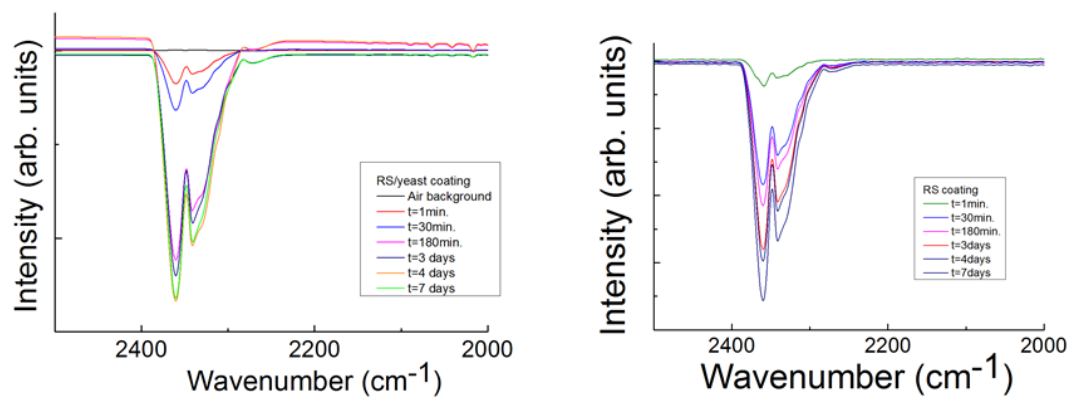


## Supplementary Materials



**Figure S1.** Evolution of the CO<sub>2</sub> absorption peak over period of 7 days for (left) RS/yeast and (right) RS coatings, respectively.



**Figure S2.** Water soaked sponges with different types of coatings. On the left it is evident the drying region around the sponge due to the water loss.