**Apparatus Requirements:**

1. Measure CO$_2$ sorption at high-pressure and moderate temperature for long time (tens of hours);
2. Keeping separate the two reactants for same long time during sorption;
3. Mixing the two CO$_2$-laden reactants;
4. Measure PU curing;
5. Allowing gas foaming.

**Key Features:**

- Rubberly impeller
- Polyol
- Isocyanate
- Sapphire window for spectroscopy monitoring
- Reactants kept separate by impeller and mixed at ambient pressure

**NIR Calibration**

- Di Caprio et al., Fluid. Phase Equilib., 425 (2016) 342
- Di Caprio et al., in preparation

**Acknowledgments:**

For the LIFE13-EN/IT/001238 project. [http://ec.europa.eu/environment/life](http://ec.europa.eu/environment/life) · [www.dow.com/k12](http://www.dow.com/k12)