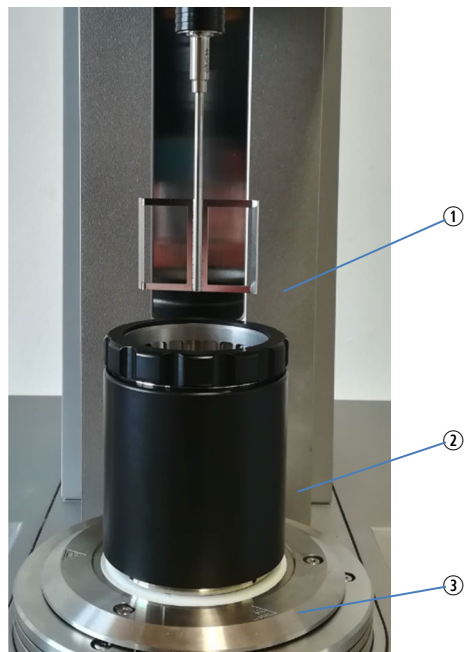


1 BMC 90

This is a short instruction on how to set up the Building Material Cell 90 on an MCR Rheometer.

The BMC 90 consists of a cup (including an inner cage to prevent slippage of samples) and a stirrer (see Figure 1).



1. Stirrer
2. Cup BMC 90
3. Peltier Plate (e.g. P-PTD 220)

Figure 1 BMC 90 mounted on a Peltier Plate with stirrer above

1.1 Mounting the Cup

BMC 90 is mounted on an appropriate heating plate (e.g. P-PTD 200/80/I (for 87235) or P-PTD 220 (for 250952, 388832)).

1.2 Connecting the Stirrer

The stirrer, which is delivered together with the BMC 90, is connected to the coupling of the MCR Rheometer. No zero gap is required. The length is adjusted to the height of the BMC 90 automatically by the Toolmaster functionality. Measuring position is 0 mm.

1.3 Sample Filling

Approximately 500 mL sample is needed for one test. Since the gap between cup and stirrer is approximately 5 mm, particles larger than 5 mm might become trapped between stirrer and cage. Such samples may require a smaller stirrer.

1.4 Software Settings

Some moving profiles rotate the stirrer whilst moving up or down, or move to a certain start angle. To avoid that the stirrer is still rotating when reaching the sample, a moving profile with a freely moving geometry should be used.

1.4.1 RheoCompass

If RheoCompass is used, the standard moving profile "Application | BMC" can be used, as the measuring geometry is not fixed in position during moving up or down.