

Variety of memories of clay paste flows which can be visualized as desiccation crack patterns

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Due to its plasticity, a water-poor clay paste can remember the direction of vibration and flow that it suffered. The memory of flow in clay paste can be visualized as a morphology of crack pattern that appears when the clay paste is dried. When the clay paste remembers the flow direction, desiccation cracks run all parallel to the direction of the flow. Recently, we find that there are some different types of memory of flow, as the direction of crack propagation changes from parallel to perpendicular direction. We would like to discuss on the mechanism of the memory effect of flow.

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