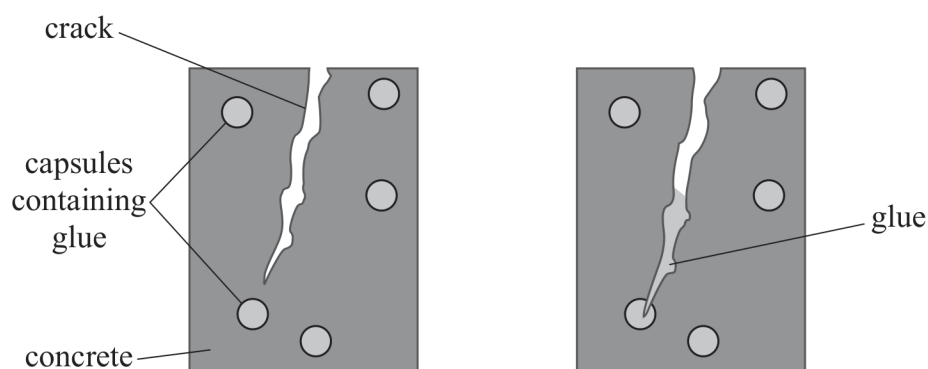
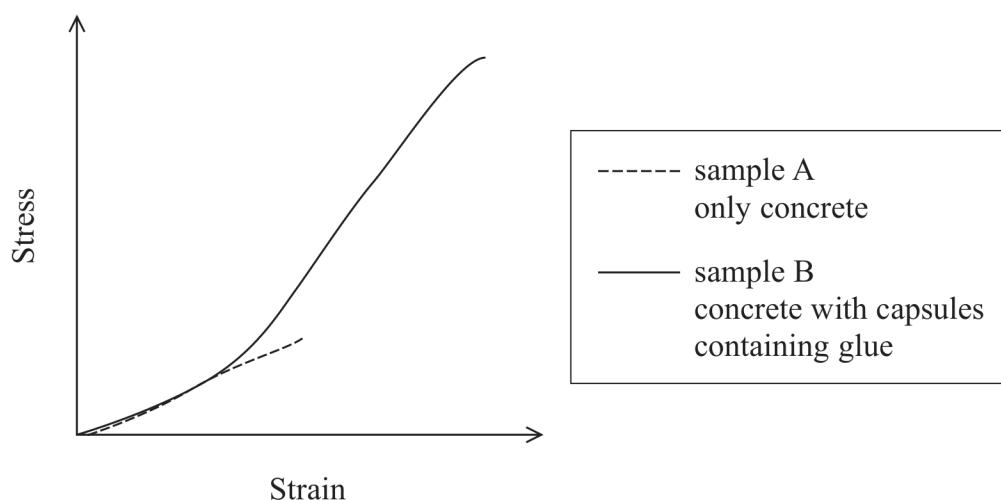


- *14 When concrete is placed under stress, cracks may form. Scientists are investigating ways to prevent cracks from spreading through the concrete. One way to do this is by adding very small capsules containing glue to the concrete mix. As a crack spreads through the concrete, some capsules break, releasing glue which fills the crack, as shown.



Two samples of concrete, of identical size, were placed under stress. Sample A consisted of concrete only, Sample B consisted of concrete with capsules containing glue.

The stress-strain graphs for the samples up to the maximum stress before fracture are shown.



Explain how adding capsules containing glue changes the properties of the concrete.

(6)

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