A Glaze That Fits Its Tile

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (2)

K differs from the tile by 2.0 mm per meter. J and L each differ by 0.2 mm per meter.

Question 2

K would contract more than the tile if free. Because they are bonded, the tile holds the glaze at a greater length than its freely cooled length, putting it in tension.

Question 3

Compare matched tiles coated with J and L through the same number and range of temperature cycles. Measure cracks after the cycles, for example by counting cracks or measuring the cracked area.

Question 4

J wants to contract slightly more than the tile, while L wants to contract slightly less. Those differences have equal size but opposite directions, so they can put the coatings under different kinds of stress.