

Civil Engineering Materials | (2nd Edition)

Problem

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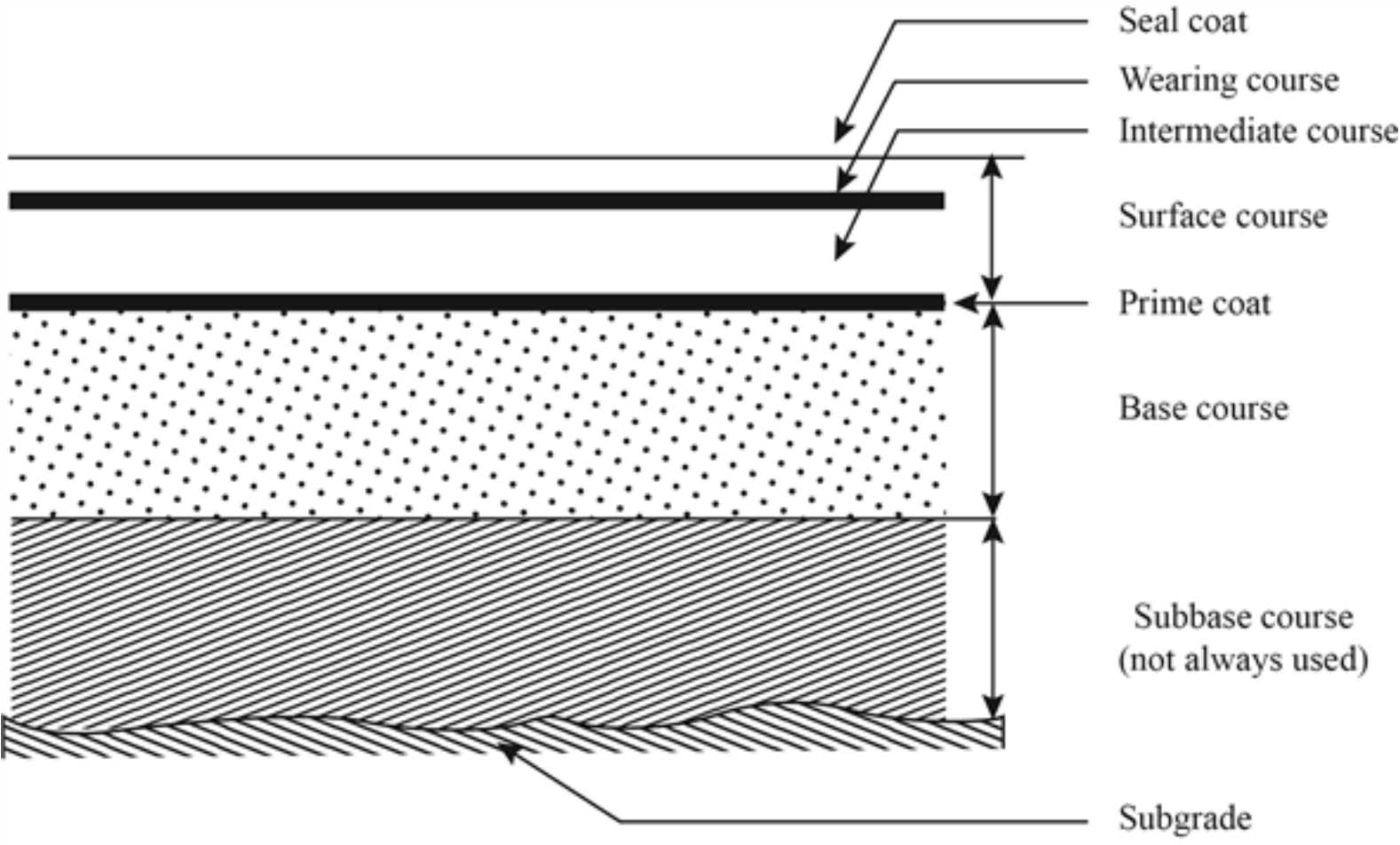
Explain the various elements of a flexible pavement.

>

Step-by-step solution

Step 1 of 5

The figure shown below shows a flexible pavement.



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Step 2 of 5

The various elements of a flexible pavement are:-

1. Subgrade:

It is also known as prepared roadbed. It is the lowest layer consists of natural and imported soil cut or embankment. It acts as the foundation for road and must have high resilient modulus. All the repeated load of the pavement is transferred to the subgrade.

Comment

Step 3 of 5

2. Subcase coarse:

It is the layer between the two layers subgrade and base coarse. It is made up of the materials that are generally of high quality than the sub grade. The loads from upper layers are transferred to the subgrade through this layer. If the base coarse layer is of very good quality, sub base coarse layer is neglected.

Comment

Step 4 of 5

3. Base coarse:

It lies directly below the wearing layer. It consists of asphalt concrete or untreated concrete base. This layer can also be constructed by the cement treated aggregates.

Comment

Step 5 of 5

4. Surface coarse:

It is also known as wearing coarse. They are constructed in separate operations. This layer is capable of withstanding wear and abrasion from the load of vehicles. It also prevents the entry of water to the deeper layers. The thickness of layer varies from 1 in. to 6 in.

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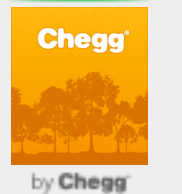
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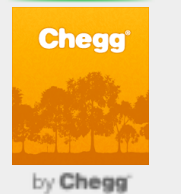
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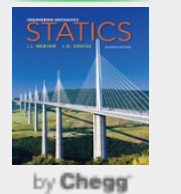
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