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Examination for Standard Practice for Concrete Pavements

Appendix B - Thin Bonded Rigid Overlays for Rigid Pavements

1. What is the maximum thickness of overlay?
 - a) 3 inches
 - b) 2 inches
 - c) 5 inches
 - d) 4 inches

2. The flexural strength of a thin bonded overlay should be what when compared to the original construction at the corresponding age?
 - a) The same as the original construction
 - b) Less than the original construction
 - c) More than the original construction
 - d) It is not relevant

3. The NMSA for thin bonded overlays should not exceed what?
 - a) One-eighth of the overlay thickness
 - b) One-quarter of the overlay thickness
 - c) Three-eighths of the overlay thickness
 - d) One-half of the overlay thickness

4. After grinding, the existing surface should be what?
 - a) Sandblasted
 - b) Cleaned by brooming
 - c) Cleaned with compressed air
 - d) All of the above

Appendix C - Steel-Fiber-Reinforced Concrete

5. In Table C-1, which project has the highest steel fiber content in lb/yd³?
 - a) Las Vegas apron
 - b) Tampa taxiway
 - c) Denver apron
 - d) Reno apron

6. Typical steel fiber dimensions are 1 to 2 inches long and what?
- a) 1.00 to 2.00 inches diameter
 - b) 0.10 to 0.20 inches diameter
 - c) 0.01 to 0.02 inches diameter
 - d) 0.001 to 0.002 inches diameter
7. The slump test used for conventional concrete is not an effective evaluation of workability for fiber-reinforced concrete?
- a) True
 - b) False
 - c) Not enough information for specific answer
 - d) Too many variables for specific answer
8. Which method of texturing should be avoided due to tearing of the surface?
- a) Broom finish
 - b) Burlap drag
 - c) Artificial turf
 - d) Wire comb
9. What is the suggested maximum joint spacing for 8" thick steel-fiber-reinforced concrete?
- a) 12.5 feet
 - b) 15.0 feet
 - c) 20.0 feet
 - d) 25.0 feet

Appendix D – Roller-Compacted Concrete Pavements; Design and Construction

10. The NMSA for roller-compacted concrete pavements should normally not exceed what?
- a) 1/4 inch
 - b) 1/2 inch
 - c) 3/4 inch
 - d) 7/8 inch
11. Why is Type III Portland cement not practical for use in RCC?
- a) Shortened working times
 - b) "Tighter" pavement surface texture
 - c) Not sulfate-resistant
 - d) No proper air-void system
12. The maximum uncompacted thickness off RCCP can be approximated by multiplying the design thickness by what amount?
- a) 0.85
 - b) 1.25
 - c) 1.65
 - d) 2.00

13. What is the suggested minimum size of an RCCP test section?
- a) Two 10 – 12 foot wide lanes, each 150 feet long
 - b) Three 10 – 12 foot wide lanes, each 100 feet long
 - c) Three 10 – 12 foot wide lanes, each 150 feet long
 - d) Three 12 – 14 foot wide lanes, each 150 feet long
14. How many cores and beams should be taken from the test section for strength testing after 28 days?
- a) 5
 - b) 10
 - c) 12
 - d) 15
15. When paving adjacent lanes with a “fresh” joint, new RCCP should be placed within how long of placing the first lane?
- a) 45 minutes
 - b) 60 minutes
 - c) 90 minutes
 - d) 120 minutes
16. The best compaction will probably occur at a speed not exceeding what?
- a) 2 mph
 - b) 1 mph
 - c) 4 mph
 - d) 3 mph
17. Sawing is a suitable method for creating contraction joints in RCCP?
- a) True
 - b) False
 - c) Not enough information for answer
 - d) Too many variables for specific answer
18. The pavement surface should be kept continuously moist for how long after final rolling?
- a) A minimum of 12 hours
 - b) At least 24 hours
 - c) 7 days maximum
 - d) 14 days
19. Moisture contents of fine and coarse aggregate should be determined how often?
- a) Hourly
 - b) Every shift
 - c) Every 300 cubic yards
 - d) Daily

20. Field density readings should be taken how often?

- a) At least once per shift
- b) Every 300 cubic yards of RCC placed
- c) Every 100 feet of each lane
- d) At every fifth core sample

21. The finished surface of the RCCP should not vary more than how much from the testing edge of a 10 foot straightedge?

- a) 1/8 inch
- b) 1/4 inch
- c) 3/8 inch
- d) 1/2 inch



Answer Sheet for Standard Practice for Concrete Pavements
 TPDH-00011

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Please completely fill in one box for each answer

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