

# Concrete Finisher

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1. Consists of crushed stone larger than 1/4 in. (6.4mm).  

|  |   |
|--|---|
| <input type="radio"/> (A) Fine Aggregates / Sand | <input type="radio"/> (B) Aggregates                            |
| <input type="radio"/> (C) Transit mixed concrete | <input checked="" type="radio"/> (D) Coarse Aggregates / Gravel |
2. Prompt repairs or specialized investigations for safety-critical defects  

|   |  |
|---|--|
| <input type="radio"/> (A) Bonding Requirement | <input type="radio"/> (B) Hand Labour                          |
| <input type="radio"/> (C) In-depth Inspection | <input checked="" type="radio"/> (D) Immediate Safety Concerns |
3. You should discard any mortar not used within how many hours?  

|  |                                  |
|--|----------------------------------|
| <input type="radio"/> (A) 5 hours                | <input type="radio"/> (B) 3 days |
| <input checked="" type="radio"/> (C) 2 1/2 hours | <input type="radio"/> (D) 1 hour |
4. In general concrete construction, the physical interlock between cement paste and aggregate, or between concrete and reinforcement (specifically, the sliding resistance of an embedded bar and not the adhesive resistance).  

|  |   |
|--|---|
| <input checked="" type="radio"/> (A) Mechanical Bond | <input type="radio"/> (B) Realkalization  |
| <input type="radio"/> (C) Anchor, Bonded             | <input type="radio"/> (D) Acceptance Test |
5. F-number testing should be preferably done within \_\_\_\_\_ hours after concrete placement, but never later than \_\_\_\_\_ hours after concrete placement.  

|  |                                     |
|--|-------------------------------------|
| <input type="radio"/> (A) 6 and 24             | <input type="radio"/> (B) 36 and 96 |
| <input checked="" type="radio"/> (C) 24 and 72 | <input type="radio"/> (D) 12 and 48 |
6. After the waiting period, floating is done to:  

|  |  |
|--|--|
| <input type="radio"/> (A) embed large aggregate particles beneath the surface mortar layer | <input type="radio"/> (B) remove slight humps to produce a plane, level surface                          |
| <input checked="" type="radio"/> (C) all   | <input type="radio"/> (D) compact and further consolidate the surface in preparation for other finishing |

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7. Sandblasting should not be done earlier than 24 hours after concrete is placed. Blasting before then will loosen the aggregate and remove too much of the surface material. After \_\_\_\_ hours, the concrete will harden to the point where it will be difficult to evenly expose aggregate with this method. To get uniform results on a large project, all surfaces should be sandblasted at the same time after placing.
- (A) 94 (B) 10  
(C) 72 (D) 73
8. A consistency of a shotcrete mixture containing the maximum amount of water such that the product will not flow or sag after placement.
- (A) Open-Circuit Potential (B) Continuous Mixer  
(C) Acceptance Test (D) Impending Slough
9. Measure of concrete's ability to withstand axial loads.
- (A) Durability (B) Hydration  
(C) Compressive Strength (D) System Design
10. Applied to concrete surface, affordable but may age differently.
- (A) Design Possibilities (B) Formwork  
(C) Integral Color (D) Dust-on Color
11. Duration for concrete to harden and gain initial strength
- (A) Hydration (B) Concrete Set Time  
(C) Finishing (D) Concrete Hardening
12. Which finishing operations affect floor flatness?
- (A) setting time, air content, slump (B) form setting and screeding  
(C) Floating, restraightening, troweling (D) control the tilt of the head to keep the blade as flat as possible
13. The change in cross-sectional area of a material as it elongates.
- (A) Tacky (B) Roving  
(C) Sounding (D) Necking

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1041. A defect induced by discontinuous flow velocities and lack of proper consolidation during placement of concrete by pumping.
- ☐ (A) Silica Fume                      ☐ (B) Bentonite  
☒ (C) Flow Line                      ☐ (D) Mineral Filler
1042. The separation of overwet or over vibrated concrete into horizontal layers with increasingly lighter material toward the top; a layered structure in concrete resulting from placement of successive batches that differ in appearance.
- ☐ (A) Fibers, Steel                      ☐ (B) Strengthening  
☐ (C) X-Ray Diffraction                      ☒ (D) Stratification
1043. An additive used to increase surface tension and reduce foaming tendencies, particularly in admixtures and materials applied by roller coating equipment.
- ☐ (A) Tendon, Bonded                      ☐ (B) Acoustic Emission  
☒ (C) Antifoaming Agent                      ☐ (D) Alkali-Silica Reaction
1044. Achieved using rough-sawn boards or plastic materials as formwork linings.
- ☐ (A) Smooth Finishes                      ☐ (B) Painted Rendered Finishes  
☐ (C) Tyrolean Finish                      ☒ (D) Textured Finishes
1045. When concrete is placed by crane and bucket, buckets must never be lifted over \_\_\_\_\_ or over \_\_\_\_\_ paths.
- ☐ (A) water sources or drainage                      ☐ (B) vehicles or equipment  
☐ (C) construction materials or debris                      ☒ (D) personnel or travel
1046. Tool used to remove high or low spots and compact concrete
- ☐ (A) Mechanical float                      ☐ (B) Hand float  
☒ (C) Darby float                      ☐ (D) Concrete float
1047. Include protection/appearance and load-carrying categories
- ☒ (A) Surface Repair Types                      ☐ (B) Repair Materials Compatibility  
☐ (C) Durable Repair Material                      ☐ (D) Surface Repair Performance

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1048. A method for removal of concrete by means of hydraulic forces that split concrete into smaller masses.

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|--|--|
| <input type="radio"/> (A) Galvanic Cell    | <input checked="" type="radio"/> (B) Hydraulic Splitting |
| <input type="radio"/> (C) Cement, Portland | <input type="radio"/> (D) Surface Impregnants            |

1049. Includes asphalt, vinyl, rubber, and linoleum tiles/sheets.

- |   |   |
|---|---|
| <input checked="" type="radio"/> (A) Resilient Floor Finish | <input type="radio"/> (B) Wood Floor Finish |
| <input type="radio"/> (C) Ceiling Finishes                  | <input type="radio"/> (D) Paint Finishes    |

1050. Sequential steps including inspection and repair

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|--|---|
| <input checked="" type="radio"/> (A) Phases of Repair Projects | <input type="radio"/> (B) Analysis of Repair Problem  |
| <input type="radio"/> (C) Extent of Damage Evaluation          | <input type="radio"/> (D) Quality Repair Requirements |

1051. Process of concrete gaining strength and durability over time

- |   |  |
|---|--|
| <input type="radio"/> (A) Screeding                     | <input type="radio"/> (B) Concrete Initial Set |
| <input checked="" type="radio"/> (C) Concrete Hardening | <input type="radio"/> (D) Cement Paste         |

1052. High-strength steel, most commonly strand, wire, or bars used to impart permanent prestress forces to concrete.

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|---|--|
| <input type="radio"/> (A) Water-Cementitious Material Ratio | <input checked="" type="radio"/> (B) Steel Reinforcement, Prestressing |
| <input type="radio"/> (C) Copper-Copper Sulfate Half Cell   | <input type="radio"/> (D) Minimum-Film-Forming Temperature             |

1053. Used to match specific arcs for concrete installation.

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|--|---|
| <input checked="" type="radio"/> (A) Benderboard | <input type="radio"/> (B) Edging And Jointing |
| <input type="radio"/> (C) Formwork               | <input type="radio"/> (D) 28-day Cure         |