

Standard Guidelines for Product Review
PCC Repair; Section 02015.20
January, 2015

DEPARTMENT OF
TRANSPORTATION

Construction Section
800 Airport Road
Salem, OR 97301-4798
503/986-3059

02015.20 – PCC Repair

PCC repair is for partial, shallow or full-depth concrete repairs. These products are cementitious structural materials..

- Products incorporating metallic particles will not be allowed.
- Products including magnesium phosphates or added gypsum will not be allowed.

There are three separate categories, all of them are exterior applications:

1. Rapid Set.
2. Very Rapid Set.
3. Standard Set.

Process - Submit the following:

- [Preliminary Information for Product Evaluation Form.](#)
- Independent Test Results showing compliance with Specs listed below.
- Legible copy of the MSDS.
- Spec Data Sheet.
- Detailed installation instructions.
- List of Limitations and Precautions.

Specifications - We require PCC Repair Materials to comply with the following:

1. COMPRESSIVE STRENGTH

- ASTM C-39, (AASHTO T-22), Using 4"x 8" cylinders when possible.
For aggregates 3/8" and larger.
- ASTM C-109, (AASHTO T-106), Using 2" cubes.
For aggregates smaller than 3/8".

	<u>Cure Time</u>	<u>Compressive Strength</u>
Rapid Set	24 Hours	3000 psi
	28 Days	4500 psi
Very-Rapid Set	3 Hours	3000 psi
	28 Days	4500 psi
Standard Set	28 Days	4000 psi

2. LENGTH CHANGE

- PCC Repair material length change shall meet requirements in ASTM C928, Table 1. Requirements are the same for all categories of PCC Repair materials

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3. SET TIME - Manufacturer's recommendations for actual working time @ 70 degrees F.
Rapid Set: 20 to 30 minutes;
Very Rapid Set: 10 to 30 minutes
Standard Set: >45 minutes.
4. CHLORIDE CONTENT AASHTO T 260
Requirements are the same for all categories of PCC Repair materials
Maximum 0.1% by weight.
6. Epoxies, urethanes, polyesters, or other types will not be considered.

Submit documentation to:

Oregon DOT – Materials Lab
Product Evaluation Coordinator
800 Airport Road SE
Salem OR 97301-4798
503-986-3059

<http://www.oregon.gov/ODOT/HWY/CONSTRUCTION/QPL/QPIndex.shtml>