

**SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION**

MATERIAL	REFERENCE	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
	TESTED BY		METHOD		CONTAINER	DISTR.				
FOR DETAILS ON CONCRETE MIX DESIGNS, TESTS AND MATERIALS, FLY ASH. SEE SECTION 901 OF THIS MANUAL. EACH REHABILITATION ITEM WILL SPECIFY THE SPECIFIC TYPE OF MATERIALS TO BE USED										
CONCRETE - CURED	Surface Tolerance (Grinding)	602.11 Contractor	Quality Control	Contractor TR 641	Each lane/ each wheel path	----	----	----	----	Contractor must furnish an approved 25 ft profilograph or approved alternate. Tested prior to as well as after grinding.
		602.11 Dist. Lab.	Accept.	Contractor/ Dist. Lab TR 641	Each lane/ each wheel path	----	----	----	2 days	Travel lane will be evaluated after corrective work completed by contractor.
		601.11 Proj. Engr.	Accept.	Proj. Engr.	*	----	----	----	1 day	*For Cross Slope & Trans. Joints, PE shall test as needed. Const. must furnish approved metal static straightedges.
	Surface Finish (Patching)	601.11 Contractor	Quality Control	Contractor	Each patched area	----	----	----	----	Contractor must furnish an approved 10-ft metal static straightedge. To be tested as soon as concrete has hardened.
		601.11 Proj. Engr.	Accept.	Proj. Engr	Each Patched area	----	----	----	1 day	Tested with approved 10-ft metal static straightedge.
	Tine Texturing (Patching)	602.07,08,09 & 10 Proj. Engr.	Accept.	Proj. Engr. TR 229	Each patched area*	----	----	----	1 day	*Match texture of adjoining pavement
		602.07,08,09 & 10 Contractor	Quality Control	Contractor TR 229	*	----	----	----	----	*Sufficient number of random checks to ensure the required texture depth is achieved.

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**SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION (Cont.)**

MATERIAL		REFERENCE	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CONCRETE - PLASTIC	Compressive Strength	602.18(d) 901.12 Dist. Lab	Accept.	Proj. Engr. S 301	6 cyl/lot	2 ft <sup>3</sup> 6 in. x 12 in. cylinder mold	-----	-----	30 days	-----
		602.07,08, 09 & 10 Dist. Lab	*	Proj. Engr. S 301	3 cyl/lot	2 ft <sup>3</sup> 6 in. x 12 in. cylinder mold	-----	-----	1 day	*Used to determine early opening date for traffic or construction equipment.
	Rate of Application for Curing Compound	601.10 Proj. Engr.	Accept.	Proj. Engr.	1/day	*	-----	-----	1 day	*The curing compound must be applied uniformly to cover the surface of the plastic concrete.
	Thickness	602 Contractor	Quality Control	Contractor	*	-----	-----	-----	-----	*Shall test sufficient to ensure specifications are met.
		602 Proj. Engr.	Accept.	Proj. Engr.	*	-----	-----	-----	1 day	*Shall test sufficient to ensure plan thickness is met.
CURING MATERIALS	Burlap Cloth	601.02 1011.01(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. For cold weather protection.
	Burlap & White Polyethylene Sheeting	601.02 1011.01(e) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. For cold weather protection.
	Liquid Membrane Forming Compound	601.02 1011.01(a) Mat. Lab	Prelim. Source Approval	Mfr. S 601	1/6 months	1 qt Friction top can	-----	-----	21 days	(QPL 65)
		601.02 1011.01(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	1 qt Friction top can	CC	-----	10 days	(QPL 65) *Visual inspection by Proj. Engr. Sample only if questionable.
	Waterproof Paper	601.02 1011.01(c) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. For cold weather protection.

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MATERIAL		REFERENCE	PURP.	SAMPLED BY	MIN. FREQ	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
EPOXY RESIN SYSTEMS	Type I, Grade as specified	602.04 602.09 602.15 1017.02 Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment	1 qt each component Friction top can	----	----	11 days	(QPL 32)
JOINT SEALANT (Extruded)	Silicone Sealant (Single component)	1005.02(c) Mat. Lab	Prelim. Source Approval	Dist. Lab S 611	1/batch or shipment	1 gal Friction top can	CA 7	----	30 days	(QPL 42)
		1005.02(c) Mat. Lab	Accept.	Proj. Engr. S 611	1/shipment*	-----	CD 1 & 7		30 days	(QPL 42) *Sample only if questionable.
		1005.02(c) Mat. Lab	Accept.*	Proj. Engr. S 611	1/batch or shipment	1 gal Friction top can	CA 7		30 days	(QPL 42) *When material is not accompanied by a CD.
JOINT SEALANT (Hot Poured)	Rubberized Asphaltic Type	1005.02(a) Mat. Lab	Prelim. Source Approval	Dist. Lab S 611	1/batch or shipment	One container	CA 7	----	11 days	(QPL 67)
		1005.02(a) Mat. Lab	Accept.	Proj. Engr. S 611	1/shipment*	-----	CD 1 & 7		11 days	(QPL 67) *Sample only if questionable.
		1005.02(a) Mat. Lab	Accept.*	Proj. Engr. S 611	1/batch or shipment	One container	CA 7		11 days	(QPL 67) *When material is not accompanied by a CD.
JOINT SEALANT (Backing Material)	Rods	1005.02(b) 1005.02(c) Mat. Lab	Accept.	----	----	-----	----	----	----	For use with polyurethane polymer (QPL 5) and silicone polymer (QPL 42) joint seals. Visual inspection by Proj. Engr.
	Rods (Heat Resistant)	1005.02(a) Proj. Engr.	Accept.	----	-----	----	----	----	----	(QPL 67) For use with hot poured joint sealants. Visual inspection by Proj. Engr.
JOINT SEALANTS (Primer)		1005.02(c) Proj. Engr.	Accept.	----	----	----	-----	-----	----	For use with silicone polymers (QPL 42) joint sealants. Visual inspection by Proj. Engr.

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		TESTED BY		METHOD		CONTAINER	DISTR.			
LOW-SHRINK PATCHING MATERIAL	Rapid Set	602.16 Mat. Lab	Accept.	Proj. Engr. S 601	1/source	1 Bag	CC 1	----	----	(QPL 24) For Dowel Bar retrofit 602.16(a)
	Compressive Strength	602.16 Dist. Lab	Accept.	Proj. Engr.	1/4 hours production, minimum 1/day	6 cubes	----	----	----	Tested at 3 and 24 hours.
POWDERED AMMONIUM LIGNIN SULPHONATE		602.14 Proj. Engr.	Accept.	Proj. Engr.	1/lot or batch	----	CC 1	----	----	For undersealing and slabjacking
REINFORCEMENT	Adhesive Anchor Systems	602.08 Mat. Lab	Accept.	Proj. Engr. S 501	1/type	-----	-----	----	12 days	(QPL 32 or 52)
	Dowel Bars	1009.04 Mat. Lab	Accept.	Proj. Engr. S 501	1/shipment/ pavement depth	4 ft assembly with dowel bars*	-----	----	9 days	*For mechanical placement, only one dowel bar required.
	Tie Bars	1009.03 Mat. Lab*	Accept.	Proj. Engr. S 501	1/size/ grade/ 150,000 lb/ source**	2 bars	-----	----	9 days	*Dist. Lab in Dist. 02. **If listed on QPL 71, material with a CA (Distr. 1) need not be sampled. Sample for verification if questionable.
	Steel Fibers	602.09 Mat. Lab*	Accept.		1/shipment	1 qt. can	CC* 1	----	10 days	*Visual inspected by Proj. Engr. sample if questionable.
SLURRY	Time of Efflux	602.14 Proj. Engr.	Accept.	Proj. Engr. TR 633	1/half day	3 gal suitable container				For undersealing and slabjacking

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