

**SECTION 601 PORTLAND CEMENT CONCRETE PAVEMENT**

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
<b>FOR DETAILS ON CONCRETE MIX DESIGNS, TESTS AND MATERIALS, SEE SECTION 901 OF THIS MANUAL.</b>										
ADHESIVE-LUBRICANT		Accept.	PE S 601	Mat. Lab	1 / lot or shipment	1 qt friction top can	----	2,000 SY PCCP	10 days	For Preformed Elastomeric Compression Joint Seal (AML) Mix well before sampling. Seal can tightly.  For Preformed Polyurethane Foam Joint Seal - as recommended by manufacturer.
BOLSTER BLOCKS	Concrete	<b>SEE SECTION 901 OF THIS MANUAL. (CLASS A STRUCTURAL OR PAVEMENT TYPE)</b>								
CONCRETE-CURED	Cores - Thickness & Compressive Strength	Accept.	Contractor / Dist. Lab.	Mat. Lab / Dist. Lab.	5/lot	5 cores*	----	less than 2,000SY make cylinders an record depth measurements	dependent upon completion of lot & curing min. 3 days	*Contractor shall notify the Dist. Lab Engr. at least five (5) days prior to the start of coring operations. See "Application of Quality Assurance Specifications for Portland Cement Concrete Pavement and Structures" for details. For pavement plan thickness 10.0 inches or less, 4" diameter (nominal) cores may be used.
	Surface Tolerance	Quality Control	Contractor TR 644	Contractor	Each wheel path, each lane, for length of project		----	----	----	Contractor must furnish an approved inertial profiler and approved 10 ft metal static straightedge. To be tested as soon as concrete has hardened.
		Accept.	Contractor/ Project Engr. TR 644	Dist. Lab	Each wheel path, each lane, for length of project		----	----	2 days	Travel lane and associated pavement will be tested after quality control testing and corrective work completed by contractor.
	Tine Texturing	Accept.	PE TR 229	PE	2/lot*		----	----	1 day	*See DOTD TR 229.
CONCRETE-PLASTIC	Compressive Strength	Accept.*	PE S 301	Dist. Lab	3 cyl/pour/ 100CY max.**	6 in. x 12 in. or 4 in. x 8 in. cylinder mold	----	----	30 days	*For small quantity pavements and projects with less than 2000 SY. ** If used for curbs only, frequency is 3 cyl / 50 CY.
	Early Strength Test	Info	PE S 301	Dist. Lab	1 set of 3 cyl/location/ day	6 in. x 12 in. or 4 in. x 8 in. cylinder mold	----	----	1 day	*Used to determine early opening date for traffic or construction equipment.
	Thickness	Quality Control	Contractor	Contractor	*		----	----	----	*For small quantity pavements and projects with less than 2000 SY.
		Accept.	PE	PE	*		----	----	1 day	*For small quantity pavements and projects with less than 2000 SY.
CURING MATERIALS	Moist Cure Materials	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. x 36 in.	----	----	10 days	*Visual inspection by PE Sample only if questionable.
CURING MATERIALS (Cond't)	Liquid Membrane Forming Compound	Accept.	PE S 601	Mat. Lab	1/shipment*	1 qt friction top can	CC	----	10 days	(AML) *Visual inspection by Project Engr. Sample only if questionable.

1-600 - 1 1/1/21

SECTION 601 PORTLAND CEMENT CONCRETE PAVEMENT (Cont'd)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
EPOXY RESIN SYSTEMS	Specified Type & Grade	Accept.	PE S 601	Mat. Lab	1/lot	1 qt each component friction top can or cartridge / tube system	CC	50 LF of joint	11 days	(AML) Visual inspection by PE Sample only if questionable.
		Verif.	PE S 601	Mat. Lab	1/lot or shipment	1 qt each component friction top can or cartridge / tube system	-----	1 gallon	11 days	(AML)
GEOTEXTILE FABRIC		Accept.	PE S 601	Mat. Lab	1/type/ source/ shipment	3 LF/roll width of fabric*	CC	150 SY of fabric	10 days	(AML) *Sample a minimum of 18 SF.
JOINT FILLERS	Preformed Polyurethane Foam	Accept.	PE S 601	Mat. Lab	1/5000 LF/ type	36 in. length	-----	2,000 SY PCCP	10 days	-----
	Wood	Accept.	PE S 601	Mat. Lab	1/5000 LF	36 in. length	-----	2,000 SY PCCP	10 days	-----
JOINT FORMER/ SEALER (Combination)	Preformed Joint Former/ Sealer	Accept.	PE S 601	Mat. Lab	1/5000 LF	6 ft length	-----	2,000 SY PCCP	11 days	-----
JOINT SEALANT (Extruded)	Silicone Polymer (single or two-component rapid cure)	Batch Cert	Dist. Lab S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA 7	-----	30 days	(AML)
		Accept.	PE S 611	Mat. Lab	1/shipment*	1 gal friction top can	CD	2,000 SY PCCP	30 days	(AML) *Sample only if questionable.
		Accept.*	PE S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA	2,000 SY PCCP	30 days	(AML) *When material is not accompanied by a CD.
JOINT SEALANT (Hot Poured)	Rubberized Asphaltic Type	Batch Cert	Dist. Lab S 611	Mat. Lab	1/batch or shipment	one container	CA 7	-----	11 days	(AML)
		Accept.	PE S 611	Mat. Lab	1/shipment*	one container	CD	2,000 SY PCCP	11 days	
		Accept.*	PE S 611	Mat. Lab	1/batch or shipment	one container	CA	2,000 SY PCCP	11 days	(AML) *When material is not accompanied by a CD.
JOINT SEALANT (Backing Material)	Rods	Accept.	-----	Mat. Lab	-----	-----	-----	-----	-----	(AML) For use with polyurethane silicone polymer joint seals. Visual inspection by PE
	Rods (Heat Resistant)	Accept.	-----	Mat. Lab	-----	-----	-----	-----	-----	(AML) For use with Hot poured joint sealants. Visual inspection by PE
JOINT SEALANTS (Primer)		Accept.	-----	PE	-----	-----	-----	-----	-----	(AML) For use with polyurethane and silicone polymers joint sealants. Visual inspection by PE
JOINT SEAL (Preformed)	Elastomeric Compression	Accept.	PE S 601	Mat. Lab	1/lot or shipment	8 ft length	CA	2,000 SY PCCP	14 days	(AML) PE forwards CA with sample to Mat. Lab.
LIME	Hydrated	Accept.	-----	Mat. Lab	1/shipment	-----	CD	-----	-----	(AML) Visual inspection by PE

I-600 - 2 - 11/21

**SECTION 601 PORTLAND CEMENT CONCRETE PAVEMENT (Cont'd)**

I-600 - 3 11/21

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
NON-SHRINK PATCHING SYSTEM	Non-Shrink Grout	Accept.	PE S 601	Mat. Lab	1/source	1 sack	-----	20 sacks	16 days	(AML) Sample shall be submitted in an unbroken moisture proof sack.
REINFORCEMENT	Adhesive Anchor System	Accept.	PE S 501	Mat. Lab	1/type	-----	-----	2,000 SY PCCP	12 days	(AML)
	Dowel Bars	Accept.	PE S 501	Mat. Lab	1/shipment	2 bars *	-----	2,000 SY PCCP	9 days	*For mechanical placement, only one dowel bar required. Basket assemblies checked for dimensional conformance by PE
	Mechanical Butt Splicing Devices	Accept.	PE S 501	Mat. Lab	1/size/ 25 splices *	-----	-----	2,000 SY PCCP	9 days	(AML) * sampling may be reduced to 1 / size / 100 splices after the first 100 splices with acceptable results
	Tie Bars	Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000lb/ source*	2 bars	CA	2,000 SY PCCP	9 days	*If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample if questionable.
TAR PAPER		Accept.	PE S 601	Mat. Lab	1/source*	2 ft x 2 ft	-----	-----	9 days	For Bolster Blocks. *Visual inspection by PE Sample only if questionable.

**SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION**

I-600 - 4 11/21

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		METHOD			CONTAINER					
<b>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.</b>										
CONCRETE-CURED	Surface Tolerance (Grinding)	Quality Control	Contractor TR 644	Contractor	Each wheel path, each lane, for length of project	-----	-----	-----	-----	Contractor must furnish an approved 25 ft profilograph or approved alternate. Tested prior to as well as after grinding.
		Accept.	Contractor / Dist. Lab TR 644	Dist. Lab	Each wheel path, each lane, for length of project	-----	-----	-----	2 days	Travel lane will be evaluated after corrective work completed by contractor.
		Accept.	PE	PE	*	-----	-----	-----	1 day	*For Cross Slope & Trans. Joints, PE shall test as needed. Contractor must furnish approved metal static straightedges.
	Surface Finish (Patching)	Quality Control	Contractor	Contractor	each patched area	-----	-----	-----	-----	Contractor must furnish an approved 10 ft metal static straightedge. To be tested as soon as concrete has hardened.
		Accept.	PE	PE	each patched area	-----	-----	-----	1day	Tested with approved 10 ft metal static straightedge.

SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION (Cont.'d)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD			CONTAINER				
CONCRETE-CURED (Cont'd)	Tine Texturing (Patching)	Quality Control	Contractor	Contractor	*	----	----	----	*Sufficient number of random checks to ensure the required texture depth is achieved.
		Accept.	PE	PE	each patched area*	----	----	1 day	*Match texture of adjoining pavement.
CONCRETE-PLASTIC	Compressive Strength	Accept.	Proj.Engr. S 301	Dist. Lab	6 cyl/lot *	6 in. x 12 in. or 4 in. x 8 in. cylinder mold	----	30 days	* If used for curbs only, frequency is 3 cyl / 50 CY.
	Early Strength Test	Info	PE S 301	Dist. Lab	3 cyl / lot	6 in. x 12 in. or 4 in. x 8 in. cylinder mold	----	1 day	*Used to determine early opening date for traffic or construction equipment.
CURING MATERIALS	Moist Cure Materials	Accept.	PE S 601	Mat. Lab	1/shipment*	36 in. x 36 in.	----	10 days	*Visual inspection by PE Sample only if questionable. For cold weather protection.
	Liquid Membrane Forming Compound	Accept.	PE S 601	Mat. Lab	1/shipment*	1 qt friction top can	CC	10 days	(AML) Visual Inspection by PE Sample only if questionable.
EPOXY RESIN SYSTEMS	Specified Type & Grade	Accept.	PE S 601	Mat. Lab	1/lot or shipment	1 qt each component friction top can or cartridge / tube system	CC	11 days	(AML) Visual Inspection by PE Sample only if questionable.
		Verif.	PE S 601		1/lot or shipment	1 qt each component friction top can or cartridge / tube system	----	1 gallon	11 days (AML)
JOINT SEALANT (Extruded)	Silicone Sealant (Single Component)	Batch Cert	Dist. Lab S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA 7	30 days	(AML)
		Accept.	PE S 611	Mat. Lab	1/shipment*	1 gal friction top can	CD	2000 SY PCCP	30 days (AML) *Sample only if questionable.
		Accept.*	PE S 611	Mat. Lab	1/batch or shipment	1 gal friction top can	CA	2000 SY PCCP	30 days (AML) *When material is not accompanied by a CD.

1-600 - 5 11/21

SECTION 602 PORTLAND CEMENT CONCRETE PAVEMENT REHABILITATION (Cont.'d)

MATERIAL	PURP.	SAMPLED BY	TESTED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		METHOD			CONTAINER				
JOINT SEALANT (Hot Poured)	Batch Cert	Dist. Lab S 611	Mat. Lab	1/batch or shipment	one container	CA 7	----	11 days	(AML)
	Accept.	PE S 611	Mat. Lab	1/shipment*	one container	CD	2000 SY PCCP	11 days	(AML) *Sample only if questionable.
	Accept.*	PE S 611	Mat. Lab	1/batch or shipment	one container	CA 7	2000 SY PCCP	11 days	(AML) *When material is not accompanied by a CD.
JOINT SEALANT (Backing Material)	Rods	Accept.	----	Mat. Lab	----	----	----	----	For use with polyurethane polymer (AML) and silicone polymer (AML) joint seals. Visual inspection by PE
	Rods (Heat Resistant)	Accept.	----	PE	----	----	----	----	(AML) For use with hot poured joint sealants. Visual inspection by PE
JOINT SEALANTS (Primer)		Accept.	----	PE	----	----	----	----	(AML) For use with silicone polymers joint sealants. Visual inspection by PE
LOW-SHRINK PATCHING MATERIAL	Rapid Set	Accept.	PE S 601	Mat. Lab	1/source	1 bag	CC	----	(AML) For Dowel Bar retrofit 602.15(b).
	Compressive Strength	Design	Proj Engr.	Mat. Lab	1/source	6 cubes	----	----	For preapproval of design. Tested at 3 and 24 hours.
POWDERED AMMONIUM LIGNIN SULPHONATE		Accept.	PE	PE	1/lot or batch	----	CC	----	For undersealing and slabjacking.
REINFORCEMENT	Adhesive Anchor Systems	Accept.	PE S 501	Mat. Lab	1/type	----	----	12 days	(AML)
	Dowel Bars	Accept.	PE S 501	Mat. Lab	1/shipment	2 bars*	----	9 days	*For mechanical placement, only one dowel bar required. Basket assemblies checked for dimensional conformance by PE
	Tie Bars	Accept.	PE S 501	Mat. Lab	1/size/grade/ 150,000 lb/ source*	2 bars	CA	9 days	*If listed on AML, material with a CA (Distr. 1) need not be sampled. Sample if questionable.
	Steel Fibers	Accept.	----	Mat. Lab*	1/shipment	1 qt can	CC	10 days	*Visual inspected by PE Sample if questionable.
SLURRY	Time of Efflux	Accept.	PE	PE	1/half day	3 gal suitable container	----	----	For undersealing and slabjacking.

1-600 - 6 - 11/21