

Timeline for Concrete Wear Course Placement

Time period prior to:		Activity
-14d	At least 14 days prior to starting deck preparations	Submit proposed plan for dust abatement to the Engineer
-7d	At least 7 days	Curing period of deck prior to shot blasting
-5d	At least 5 days prior to	Notify Engineer 5 days prior to calibrating concrete mobile, so Engineer is present.
-3d	At least 72 hours	Curing time of approach panels prior to shot blasting
-7d to -1d	Sometime prior to batching wear course concrete	Perform gradation on and take samples of aggregates for lab. Calibrate Concrete mobile, and record admixtures being used. Get shipping tickets for cement.
-3d to -1d	Prior to setting firm date & time of Wear Course Placement	Check the N.W.S. prediction for daytime temperatures forecast for anticipated dates of placement. Modify placement schedule so wear course is placed when temps or in specified range.
-48h	Within 48 hours of placing concrete	Clean slab surface and shot blast the entire bridge surface and approaches to be overlaid.
-48h to -24h	After Shot blasting	Visual inspection of deck for cracks & defects
	After surface inspection	Seal Cracks & correct defects
-24h	At least 24 hours in advance	Notify engineer if scheduling a night operation
-24h to -12h	Prior to pre-wetting deck	Set paving rails, inspect them for line and elevation. Perform dry run on full length of deck and approach panels Mark edge of pour and sawcut locations, pre-wet burlap.
-12h to -0h	After crack sealer has cured, but within 12 hours of placing the concrete wearing course	Pre-wet surfaces to be overlaid to a saturated surface dry condition for at least 6 hours
-3h to -0h	Just prior to placing wear course	Mix bonding grout, start concrete-mobile, and run out enough material to get a consistent product. Sample concrete, make air test and a cylinder and, after 5 minutes, a slump test. After concrete tests pass, start scrubbing grout into deck surface, and start placing wear course.
Time Period after Concrete Placement:		Activity
≤ 15m	Within 15 minutes	Maximum elapsed time between depositing concrete on deck and final finishing.
≤ 30m	Within 30 minutes	Maximum elapsed time between concrete placement and application of AMS curing compound.
15m to 75m	As soon as can be walked on without damage	Place wet burlap or curing blankets on concrete. Maintain burlap in a wet condition for the entire curing period.
≥ 72h	72 hours after concrete placement	Earliest permitted use of impact equipment in adjacent lane
≥ 96h	96 hours after concrete placement	Minimum curing period before vehicular traffic is allowed on wearing course. If daily mean temp. falls below 60 degrees, allow additional curing time.
> 96h	After completion of curing period	Inspect wearing course for cracks and delamination. Fill cracks and replace delaminated sections prior to opening the bridge to vehicular traffic