

2010 NDDOT/Industry Concrete Research Partnership Results

Mix Description	1 Day Comp.	3 Day Comp.	7 Day Comp.	28 Day Comp.	90 Day Comp.	3 Day Flex.	7 Day Flex.	30 Day Flex.	Time of Set		Rapid Chloride Ion (Coulombs)
									Initial	Final	
#1 SP Mix - 29% Ash - Exshaw Well Graded Aggr.- 564 lbs.	1360	2800	3820	5340	6680	445	535	605	5.0 hrs.	8.5 hrs.	594
#2 SP Mix -29% Ash – GU Well Graded Aggr. – 564 lbs.	1360	2680	3610	5340	6950	415	510	660	5.0	6.0	563
#3 SP Mix -20% Ash – Exshaw Well Graded – 564 lbs. Accel.	1940	3110	3730	5170	6110	490	540	620	3.8	5.3	867
#4 SP Mix -20% Ash – GU Well Graded -564 lbs. Accel.	1690	2630	3650	5090	6090	440	525	620	3.5	4.5	1009
#5 SP Mix -29% Ash – Exshaw Well Graded – 564 lbs. Delvo	1640	2910	3570	5180	6650				6.0	7.5	650
#6 SP Mix – 25% Ash-25% Slag Well Graded -564 lbs. Exshaw	1080	2490	3470	4980	6520				5.5	7.3	520
#8 7.2 bag HE 100% Exshaw Gap Graded Aggregates	2040	2950	3390	4710	5240	560	590	650	6.3	7.8	2429
#9 7.2 bag HE 100% GU Gap Graded Aggregates	2180	3280	3740	4800	5540	540	580	640	6.3	8.0	2757