

# Reducing Joint Damage in Concrete Pavements: Quanti

Transportation Research Record

2577, 17-24

DOI: 10.3141/2577-03

Citation Report

#	ARTICLE	IF	CITATIONS
1	The influence of carbonation on the formation of calcium oxychloride. <i>Cement and Concrete Composites</i> , 2016, 73, 185-191.	4.6	28
2	Evaluating the use of supplementary cementitious materials to mitigate damage in cementitious materials exposed to calcium chloride deicing salt. <i>Cement and Concrete Composites</i> , 2017, 81, 77-86.	4.6	33
3	Use of Fly Ash to Minimize Deicing Salt Damage in Concrete Pavements. <i>Transportation Research Record</i> , 2017, 2629, 24-32.	1.0	32
4	Mitigation of Calcium Oxychloride Formation in Cement Pastes Using Undensified Silica Fume. <i>Journal of Materials in Civil Engineering</i> , 2017, 29, .	1.3	20
5	Phase Diagram and Volume Change of the $\text{Ca}(\text{OH})_2 \text{---} \text{CaCl}_2 \text{---} \text{H}_2\text{O}$ System for Varying $\text{Ca}(\text{OH})_2/\text{CaCl}_2$ Molar Ratios. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	26
6	Flexural strength reduction of cement pastes exposed to $\text{CaCl}_2$ solutions. <i>Cement and Concrete Composites</i> , 2018, 86, 297-305.	4.6	51
7	Damage in cement pastes exposed to $\text{MgCl}_2$ solutions. <i>Materials and Structures/Materiaux Et Constructions</i> , 2018, 51, 1.	1.3	32
8	Role of Supplementary Cementitious Material Type in the Mitigation of Calcium Oxychloride Formation in Cementitious Pastes. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, .	1.3	31
9	Toward the prediction of pore volumes and freeze-thaw performance of concrete using thermodynamic modelling. <i>Cement and Concrete Research</i> , 2019, 124, 105820.	4.6	50
10	Reducing Damage Due to Chemical Reactions in Concrete Exposed to Sodium Chloride: Quantification of a Deleterious Chemical Phase Change Formation. <i>MATEC Web of Conferences</i> , 2019, 271, 07004.	0.1	3
11	Service-life of concrete in freeze-thaw environments: Critical degree of saturation and calcium oxychloride formation. <i>Cement and Concrete Research</i> , 2019, 122, 93-106.	4.6	65
12	The effect of using supplementary cementitious materials on damage development due to the formation of a chemical phase change in cementitious materials exposed to sodium chloride. <i>Construction and Building Materials</i> , 2019, 210, 685-695.	3.2	37
13	Chloride binding of cement pastes with fly ash exposed to $\text{CaCl}_2$ solutions at 5 and 23°C. <i>Cement and Concrete Composites</i> , 2019, 97, 43-53.	4.6	106
14	Surface abrasion resistance of high-volume fly ash concrete modified by graphene oxide: Macro- and micro-perspectives. <i>Construction and Building Materials</i> , 2020, 237, 117686.	3.2	42
15	Effects of External Environments on the Fixed Elongation and Tensile Properties of the VAE Emulsion-Cement Composite Joint Sealant. <i>Materials</i> , 2020, 13, 3233.	1.3	4
16	Tensile and Fixed Elongation Properties of Polymer-Based Cement Flexible Composite under Water/Corrosive Solution Environment. <i>Materials</i> , 2020, 13, 2155.	1.3	5
17	Calcium oxychloride: A critical review of the literature surrounding the formation, deterioration, testing procedures, and recommended mitigation techniques. <i>Cement and Concrete Composites</i> , 2020, 113, 103663.	4.6	35
18	Synergistic effects of air content and supplementary cementitious materials in reducing damage caused by calcium oxychloride formation in concrete. <i>Cement and Concrete Composites</i> , 2021, 122, 104170.	4.6	7

#	ARTICLE	IF	CITATIONS
19	Using compressive strength and mass change to verify the calcium oxychloride threshold in cementitious pastes with fly ash. <i>Construction and Building Materials</i> , 2021, 296, 123640.	3.2	8
20	Predicting pore volume, compressive strength, pore connectivity, and formation factor in cementitious pastes containing fly ash. <i>Cement and Concrete Composites</i> , 2021, 122, 104113.	4.6	27
21	The Influence of Calcium Chloride on Flexural Strength of Cement-Based Materials. , 2018, , 2041-2048.		2
22	Calcium Oxychloride Formation Potential in Cementitious Pastes Exposed to Blends of Deicing Salt. <i>ACI Materials Journal</i> , 2017, 114, .	0.3	18
23	Measuring Volume Change Caused by Calcium Oxychloride Phase Transformation in a Ca(OH) <sub>2</sub> -CaCl <sub>2</sub> -H <sub>2</sub> O System. <i>Advances in Civil Engineering Materials</i> , 2017, 6, 20160065.	0.2	5
24	Extending Low-Temperature Differential Scanning Calorimetry from Paste to Mortar and Concrete to Quantify the Potential for Calcium Oxychloride Formation. <i>Advances in Civil Engineering Materials</i> , 2018, 7, 20170113.	0.2	1
25	Reducing detrimental sulfate-based phase formation in concrete exposed to sodium chloride using supplementary cementitious materials. <i>Journal of Building Engineering</i> , 2022, 45, 103639.	1.6	4
26	Effectiveness of Soy Methyl Ester-Polystyrene as a Concrete Protectant on Mitigating the Chemical Interaction between Cement Paste and Calcium Chloride. <i>Transportation Research Record</i> , 2022, 2676, 373-387.	1.0	6
27	A New Mixture Proportioning Method for Performance- Based Concrete. <i>ACI Materials Journal</i> , 2022, 119, .	0.3	3
29	Damage in cement pastes and mortars exposed to CaCl <sub>2</sub> and low-temperature cycles. <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, 1.	1.3	1
30	Durability of concretes exposed to high concentrations of CaCl <sub>2</sub> and MgCl <sub>2</sub> . <i>Materials and Structures/Materiaux Et Constructions</i> , 2022, 55, .	1.3	6
31	The influence of air voids and fluid absorption on salt-induced calcium oxychloride damage. <i>Cement and Concrete Composites</i> , 2022, 133, 104697.	4.6	3
32	Utilizing Nano Silica to Reduce Calcium Oxychloride Formation in Cementitious Materials. <i>Transportation Research Record</i> , 0, , 036119812211252.	1.0	0
33	Heat of Hydration, Shrinkage, and Flexural Strength of Portland Limestone Cement Mortar. <i>Advances in Civil Engineering Materials</i> , 2022, 11, 501-519.	0.2	1
34	Durability evaluation of reinforced concrete with surface treatment of soy methyl ester-polystyrene under freeze-thaw cycles and calcium chloride. <i>Cement and Concrete Composites</i> , 2023, 137, 104927.	4.6	9
35	Mitigating calcium oxychloride formation in cementitious paste using alternative supplementary cementitious materials. <i>Construction and Building Materials</i> , 2023, 377, 130756.	3.2	4