



# Sulfate Attack On Concrete

**A. de Sousa Coutinho**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Sulfate Attack On Concrete:**

**Sulfate Attack on Concrete** J. Marchand, Ivan Odler, Jan P. Skalny, 2001-10-11 Sulfate Attack on Concrete provides a comprehensive reference to this important subject It covers a short history of concrete deterioration due to sulfate attack the origin of sulfates in concrete the importance of appropriate concrete processing forms and physical chemical mechanisms of concrete deterioration due to sulfates preventative measures standardisation and numerous case histories This book is an essential reference for industry practitioners involved in concrete science and engineering and also for academics and researchers of materials science and concrete technology

**External Sulphate Attack - Field Aspects and Lab Tests** Esperanza Menéndez, Véronique Baroghel-Bouny, 2019-09-17 This volume gathers contributions from the final workshop of the RILEM TC 251 SRT Sulfate Resistance Testing on External Sulfate Attack TESA 2018 held on May 24 25 2018 at IETcc CSIC Madrid Spain One of the Technical Committee s main events it addressed various aspects of external sulfate attack in concrete structures and test methods The workshop promoted technical discussions and debates on ideas on these topics with a focus on evaluating the resistance of concrete exposed to ESA It also provided a forum for participants from around the globe to share their experiences and research on concrete structures affected by external sulfate attack and on test methods The book discusses the latest advances in research related to ESA and new developments in test methods and features real world case studies of concrete structures affected by external sulfate attack in various countries It also presents new studies linking field cases and lab tests including 12 contributions on 3 main themes mechanisms of alteration in external sulfate attack field aspects of external sulfate attack and testing to evaluate the resistance of concrete to external sulfate attack

*External Sulfate Attack of Concrete* Federico Macias Aguayo Jr., 2016 Sulfate attack of concrete is perhaps the least understood of the major durability mechanisms plaguing reinforced concrete infrastructures Many studies have attempted to better understand the underlying mechanisms in which the various modes of deterioration by sulfate attack manifest however several controversies still exist Moreover ASTM C 1012 2012 which is the most commonly referred standardized laboratory test method to determine sulfate resistance of blended portland cement mixtures does not always link well to field performance and may take up to 18 months to complete The research program presented in this dissertation investigates various issues pertaining to the mechanisms testing methods and factors influencing external sulfate attack The primary focus of this research study was to investigate and propose a reliable and innovative accelerated test method to evaluate the sulfate performance using concrete specimens The research program was divided into the following four key components 1 design a method that can obtain results within a reasonable timeframe less than six months 2 design a method that uses concrete specimens and thus links more closely to field performance 3 develop a better understanding on the role and mechanisms of sulfate attack on concrete through a comprehensive research program including field and laboratory investigations and 4 investigate the use of calcium sulfate gypsum used as an additive to mitigate the potential of sulfate

attack in blended portland cement mixtures using high calcium fly ash The findings in this dissertation led to the development of a potential accelerated test method for determining sulfate resistance by vacuum impregnating concrete or mortar samples with sulfate solution to accelerate the ingress and onset of chemical reactions between the hydrated cement paste and sulfate ion  $\text{SO}_4^{2-}$  The effects of binder type water to cementitious ratio w/cm curing regime sulfate type and concentration are examined In comparison to the conventional ASTM C 1012 method results showed a higher rate of expansion with significant distress observed in samples subjected to the accelerated test method and placed in a 5%  $\text{Na}_2\text{SO}_4$  solution Similar trends but at a relatively lower expansion rate were also observed in samples placed in a 0.89%  $\text{Na}_2\text{SO}_4$  solution Physical measurements chemical analysis and microstructural studies were performed periodically on the specimens

**Materials Science of Concrete** Jacques Marchand, Jan P. Skalny, 1999 This volume contains ten invited presentations on the topic of sulfate attack caused by external sulfate sources The discussions concentrate on chemical and physical mechanistic aspects of the applicable sulfate to paste reactions and on the interrelationships between the internal e.g. paste composition pore solution concrete matrix permeability and external e.g. composition of aggressive medium temperature and humidity curing practices variables *Aspects of Sulfate Attack on Concrete* A. de Sousa Coutinho, 1979 This paper discusses three aspects of sulfate attack on concrete that are important in understanding the development of sulfate resisting concretes These are the importance of a precipitated layer of reaction products at the surface of the concrete the role of aggregate type in the formation of ettringite and the importance of the alkalinity of the medium in which the ettringite is formed It is shown that alumina of kaolinized feldspar react with sulfates in a supersaturated lime medium giving rise to expansive ettringite It is also shown that lowering the concentration of lime in the medium inhibits expansion this is accomplished by replacing 40% or more of the cement with pozzolan Resistance to Sulfate Attack of Concrete Using Special Cements as Compared with Concrete Using Type V Sulfate-resisting Cement, 1961 Sulfate Attack on Concrete Menashi David Cohen, 1991 *Investigation of Sulfate Attack on Concrete* John Donald Whitaker, 1992 Sodium Sulfate Attack on Concrete Dominic Langelier, 2015 Concrete is a construction material used in the majority of existing structures such as bridges dams buildings etc In some cases the structures are exposed to sulfates which attack and deteriorate the concrete due to chemical reaction The resistance of concrete to sulfate attack is typically represented by the expansion of concrete or mortar bars which are fully submerged in sulfate solution described in the ASTM C 1012 standard This exposure is poorly representative of the conditions to which concrete is exposed in the field since in most situations concrete is only partially submerged and in many cases subjected to cyclic exposure to sulfates Furthermore the parameter tested in the standard i.e. expansion does not necessarily represent the damage to the concrete For these reasons the objective of this research was to investigate sulfate attack under different exposure conditions which are more representative of those found in the field The quantification of damage was done by looking at different transport properties and changes to those

properties since they directly correspond to the mechanism in which the sulfate enters the concrete      Fly Ash Increases Resistance of Concrete to Sulfate Attack James T. Dikeou,1975      **SP-317 Sulfate Attack on Concrete** Mohamed T. Bassuoni,Doug Hooton,Thanos Drimalas,2017-06-12      *Accelerated Sulfate Attack on Concrete in a Hot Climate* FF. Wafa,1994 An accelerated experimental investigation was conducted to study the effect of high sulfate concentration on concrete compressive strength The effect of sulfate exposure on concrete compressive strength was evaluated by immersing concrete specimens 100 mm cubes in a 10% magnesium sulfate solution The variable parameters were the type of cement mixture proportions curing period and period of sulfate attack Test results showed that the use of a high W C ratio with Type I cement produced weak concrete with a loss of compressive strength up to 50% after 15 months of sulfate exposure Using a rich mixture with Type V cement and a low W C ratio produced dense impermeable concrete that showed no losses of strength even after 15 months of sulfate exposure in a hot humid environment      **Concrete** Adam M. Neville,2006-05-26 A book on concrete that looks at a problem or an issue and discusses the underlying scientific and technological aspects including broader contextual topics It explains how closely we can determine the water cement ratio of hardened concrete and considers whether we can verify the age of cracks by measuring carbonation      **Corrosion of Steel in Concrete** Luca Bertolini,2004-02-23 This reference work will focus on the corrosion of steel in concrete the main cause of deterioration of reinforced concrete structures A survey on well established mechanisms and concepts is given but the main emphasis lies on new methods and materials for preventive measures condition assessment and repair      Resistance of Concrete to Sulfate Attack Yongjun Zhang,2001      *Effect of Cement Type on the Resistance of Concrete to Sulfate Attack* F. L. Smith,United States. Bureau of Reclamation,1958      **Combating Sulfate Attack on Concrete on Bureau of Reclamation Projects** Bernard P. Bellport,1967\*      **Laboratory and Field Evaluations of External Sulfate Attack in Concrete** Thanos Drimalas,Texas. Department of Transportation,United States. Federal Highway Administration,2011      Significance of Tests and Properties of Concrete and Concrete-making Materials Joseph F. Lamond,J. H. Pielert,2006      **Sulfate Soundness** Bryant Mather,ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MISS.,United States. Army. Corps of Engineers,Waterways Experiment Station (U.S.),1969 The paper discusses the physical and chemical effects of the phenomena associated with the formation of hydrated sulfates in concrete aggregate paste and mortar The relation of the physical properties of the material surrounding the locus at which the hydrated sulfate is produced to the amount of expansion that results the degree to which the expansion can be reduced by restraint the force required to prevent expansion or to prevent the reaction from taking place the consequences of the restraining force being uniaxial biaxial or triaxial rather than hydrostatic are considered Author

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## **Table of Contents Sulfate Attack On Concrete**

1. Understanding the eBook Sulfate Attack On Concrete
  - The Rise of Digital Reading Sulfate Attack On Concrete
  - Advantages of eBooks Over Traditional Books
2. Identifying Sulfate Attack On Concrete
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sulfate Attack On Concrete
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sulfate Attack On Concrete
  - Personalized Recommendations
  - Sulfate Attack On Concrete User Reviews and Ratings
  - Sulfate Attack On Concrete and Bestseller Lists
5. Accessing Sulfate Attack On Concrete Free and Paid eBooks
  - Sulfate Attack On Concrete Public Domain eBooks
  - Sulfate Attack On Concrete eBook Subscription Services

- Sulfate Attack On Concrete Budget-Friendly Options
- 6. Navigating Sulfate Attack On Concrete eBook Formats
  - ePub, PDF, MOBI, and More
  - Sulfate Attack On Concrete Compatibility with Devices
  - Sulfate Attack On Concrete Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sulfate Attack On Concrete
  - Highlighting and Note-Taking Sulfate Attack On Concrete
  - Interactive Elements Sulfate Attack On Concrete
- 8. Staying Engaged with Sulfate Attack On Concrete
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sulfate Attack On Concrete
- 9. Balancing eBooks and Physical Books Sulfate Attack On Concrete
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sulfate Attack On Concrete
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sulfate Attack On Concrete
  - Setting Reading Goals Sulfate Attack On Concrete
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sulfate Attack On Concrete
  - Fact-Checking eBook Content of Sulfate Attack On Concrete
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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