

Application Of Super Absorbent Polymer In Flood Management

M. Soric

Application of Super Absorbent Polymers (SAP) in Concrete Construction Viktor Mechtcherine, Hans-Wolf Reinhardt, 2012-01-02 This is the state-of-the-art report prepared by the RILEM TC "Application of Super Absorbent Polymers (SAP) in concrete construction". It gives a comprehensive overview of the properties of SAP, specific water absorption and desorption behaviour of SAP in fresh and hardening concrete, effects of the SAP addition on rheological properties of fresh concrete, changes of cement paste microstructure and mechanical properties of concrete. Furthermore, the key advantages of using SAP are described in detail: the ability of this material to act as an internal curing agent to mitigate autogenous shrinkage of high-performance concrete, the possibility to use SAP as an alternative to air-entrainment agents in order to increase the frost resistance of concrete, and finally, the benefit of steering the rheology of fresh cement-based materials. The final chapter describes the first existing and numerous prospective applications for this new concrete additive.

Modern Superabsorbent Polymer Technology Fredric L. Buchholz, Andrew T. Graham, 1998 A thorough, up-to-date examination of the science and practical application of superabsorbent polymers. Modern Superabsorbent Polymer Technology takes a comprehensive look at the structure, properties, and uses of superabsorbent polymers. Prepared by editors with over 20 years of experience in the field, it offers a unified approach to polymer science technologies and examines the key interrelationships between structure, properties, behavior, and applications. This book draws on the best and most relevant scientific papers from academia and industry, as well as numerous patents and patent applications. The result is a compact, centralized source of information on superabsorbent polymers that no polymer or chemical engineer will want to be without. Discusses synthetic chemistry and the effects of synthesis on the structure of superabsorbent polymers * Describes and compares industrial practices of the major manufacturers of superabsorbent polymers * Features analytical methods for evaluation of the properties and behavior of superabsorbent polymers * Explores structural and property relationships of crosslinked super-absorbent polymers * Surveys new superabsorbent polymer forms and types-including fibers, foams, and biodegradable superabsorbents * Covers current and emerging applications in personal care products, horticulture, construction, and other areas.

Absorbent Polymer Technology L. Brannon-Peppas, R.S. Harland, 2012-12-02 In recent years, there has been a veritable explosion of research and development in consumer-oriented fields that utilize polymeric materials which absorb large amounts of water. These fields encompass the preparation, characterization and commercialization of separation systems, pharmaceutical and personal care products such as infant diapers, feminine products, incontinence products and many other related areas. The polymeric materials utilized in these applications are known as absorbent or superabsorbent materials because of their ability to swell rapidly and to retain large volumes of water, urine and other biological fluids. The aim of this book is to introduce the fundamentals of polymer structure and swelling as related to polymers used for these superabsorbent materials. In the field of absorbence, particular attention is given to crosslinked structures which swell to more than fifty times their initial weight in water or electrolytic solutions. The book also provides descriptions of novel applications of superabsorbent materials as well as a detailed analysis of water transport in crosslinked polymers. *Absorbent Polymer Technology* should be of interest to chemists, polymer scientists, chemical engineers, and industrial scientists working with swellable polymeric systems in personal care, pharmaceutical, agricultural waste treatment and separation industries.

Pesticide Formulations and Application Systems Paul D. Berger, Bala N. Devisetty, Franklin R. Hall, 1993 Papers presented at the 13th Symposium on [title], held in Miami, Florida in November 1992. The subjects involve a wide range of disciplines of interest to formulators, basic pesticide manufacturers, applicators, and suppliers to the agrochemical industry. The volume is a compilation of the latest d

The Use of Superabsorbent Polymer in Standard and Pervious Concrete Christopher John Farney, 2011 The use of internal curing and specifically the use of super absorbent polymers has recently become an important topic in concrete research. Internal curing has been shown to reduce autogenous shrinkage in concrete mixtures, especially in high-strength mixtures where the water to cement ratio is low. Super absorbent polymer has not been studied in regards to its effect on pervious concrete. This research was conducted to examine the effectiveness of a commercially available super absorbent polymer in both standard and pervious concrete. The testing was initially conducted on mortar mixtures, followed by standard and high-strength concrete mixtures, and finally pervious concrete mixtures. Several tests were conducted including compressive strength, autogenous and total shrinkage, restrained shrinkage, moisture loss, abrasion, as well as others. The results followed similar trends as much of the previous research conducted on standard and high-strength mixtures containing super absorbent polymer. The pervious concrete containing super absorbent polymer showed an improvement in compressive strength, abrasion resistance, moisture loss, and total shrinkage compared to a control pervious mixture. If long term testing shows an improvement in the durability of pervious concrete containing super absorbent polymer, the applications for pervious concrete could be significantly increased.

Application of Superabsorbent Polymers (SAP) in Concrete Construction Viktor Mechtcherine,2011

Superabsorbent Polymers Fredric L. Buchholz,1994 Discusses the fundamental aspects of structure-property relationships in superabsorbent polymers, including network modeling and compressibility of ionic gels. Describes methods of preparation and specification of superabsorbents. Presents novel methods of preparation resulting in absorbent polymers with advanced properties. Examines emerging applications of superabsorbent polymers in the construction, agriculture, food, leisure, and communications industries.

Properties and Applications of Superabsorbent Polymers Sand Arpit,Tuteja Jaya,2023 This book discusses fundamental aspects of super absorbent polymers (SAPs), insight into the synthesis and modification of SAPs as well as their potential applications in different domains. SAPs are bio-based material that has attracted much interest due to their unique structural properties, biodegradability, biocompatibility, etc. The book exhibits a unique combination of SAP designing, synthetic strategies, properties and chemistry along with SAP's application in the field of drug delivery, firefighting and biosensors, agriculture, etc. Various approaches to make these products a cost-effective and sustainable are discussed precisely in this book. Additionally, the approaches from the perspective of academic organization and research laboratories, many readers are able to learn the insights of the connection between super absorbent polymers in the agriculture field by reducing seedling mortality owing to their water storage capacity in soil. This book written by eminent researchers can be a useful reference for graduate, post-graduate students and researchers working in the file of super absorbent polymers, polymer technology, hygiene industry, etc.

The Use of Superabsorbent Polymer in Standard and Pervious Concrete Christopher Farney,2012 The use of internal curing and specifically the use of super absorbent polymers has recently become an important topic in concrete research. Internal curing has been shown to reduce autogenous shrinkage in concrete mixtures, especially in high-strength mixtures where the water to cement ratio is low. Super absorbent polymer has not been studied in regards to its effect on pervious concrete. This research was conducted to examine the effectiveness of a commercially available super absorbent polymer in both standard and pervious concrete. The testing was initially conducted on mortar mixtures, followed by standard and high-strength concrete mixtures, and finally pervious concrete mixtures. Several tests were conducted including compressive strength, autogenous and total shrinkage, restrained shrinkage, moisture loss, abrasion, as well as others.

Investigation of the Interaction Between Superabsorbent Polymers and Fluids in Hygiene Applications Mihaela Soric,2016

3rd International Conference on the Application of Superabsorbent Polymers (SAP) and Other New Admixtures Towards Smart Concrete William P. Boshoff,Riaan Combrinck,Viktor Mechtcherine,Mateusz Wyrzykowski,2019-11-21 The book gathers the peer-reviewed contributions presented at the 3rd International Conference on Application of Superabsorbent

Polymers (SAP) and Other New Admixtures towards Smart Concrete, held in Skukuza, South Africa, on November 25-27, 2019. It features papers focusing on the behavior of SAP in concrete (in particular the absorption behavior) as well as the effect of SAP on fresh and hardened concrete properties. It also covers topics such as other modern admixtures, in particular rheology-modifying admixtures, including the recently emerging field of bio- or waste-derived admixtures. The conference builds on the experience and summarizes the activities of the RILEM Technical Committee 260-RSC Recommendations for Use of Superabsorbent Polymers in Concrete Construction and addresses other prominent research activities in the field of concrete admixtures.

Superabsorbent Polymers ,1994

Investigation of the Interaction Between Superabsorbent Polymers and Fluids in Hygiene Applications M. Soric,2016

Study on the Effect of Cellulose Loading and Ph on Water Absorbency of Superabsorbent Polymer Composite
Nurhafizah Izzati Kasim,2014 Cellulose is natural polymer that can be found abundantly in the earth which has biorenewable and biodegradable abilities. Over the last several decades, the uses of synthetic polymers in all kind of applications and fields make the earth in the state of danger. As known, polymers material is difficult to dispose and can cause to environmental issues. Synthetic polymers wastes are the big problems that contribute to environmental and ecological damage. Therefore, the aim of this research is to increase the water absorbency of superabsorbent polymer by using the natural polymer which is cellulose as filler. It was believed that the incorporation of filler in SAP could increase the water absorbency of the polymer. In this study, the graft polymerization has been chosen to prepare the superabsorbent polymer composite (SAPC). The water absorbency property is observed by varied the filler loading contents and pH values. Based on the results obtained, the optimum of water absorbency of SAPC was shown at 2wt% of cellulose content. This 2wt% of SAPC was then immersed into acid and basic solution at different pH solution and the result shown the optimum water absorbency were observed at 2 wt% of cellulose loading. Meanwhile, the optimum water absorbency at different pH value also can be observed at both solution; acidic (pH 2) and basic (pH 12). For the effect of cellulose loading, the observed result was supported by SEM microstructures of SAPC where the surface morphology of SAPC at 2wt% of filler contents shown coarse, undulant surface and multiple porous. Meanwhile, the microstructure of SAPC at 10wt% show rigid and dense surface. The research objective has been successfully achieved in studying the effect of SAPC towards filler contents and pH values. As result, cellulose-SAPC (2.0 wt%) reveals with multiple porous structure that suitable for penetration of water into polymeric network. Meanwhile pH 2 and pH 12 are the optimum condition for water absorbency due to ionic charge strength from acidic and basic solution. Therefore, this research has proved that the cellulose SAPC was able to enhance the water absorbency of superabsorbent polymer which further could give better contributions in various applications and also more environmental

friendly.

Use of superabsorbent polymers in the production of frost resistant concrete ,

Superabsorbent Polymer System G. H. Ng, Polymer Science and Technology, 1988

Effect of Ph Solution on the Water Absorbency of Superabsorbent Polymer Composite Ayuni Athirah Azman, 2014

Nowadays, superabsorbent polymer composite (SAPC) has been world widely known because of its capacity in contributing beneficial applications in daily life. In this study, Poly Oil Palm Empty Fruit Bunch-co-Acrylamide superabsorbent polymer composite (OPEFB-AM-SAPC) was synthesized by solution polymerization of the Acrylamide (AM) monomer onto OPEFB fibre using Ammonium Persulphate (APS) and N, N-methylene bisacrylamide (MBA) which act as an initiator and crosslinker, respectively. The effects of different pH solution and filler amount towards water absorbency have been identified by studying the optimum condition of each parameter towards water absorbency capacity of polymer. For a parameter of pH solution, the maximum water absorbency was observed at pH 4 for fixed filler amounts. Meanwhile, for the effect of different filler loading, the optimum water absorbency of OPEFB-AM-SAPC was achieved at 2.5 wt% of filler loadings which reveals the well-organized loosely polymeric structure with multiple porous structures that suitable for penetration of water into the polymeric network. These multiple porous structures lead for high water uptake within the network. On the other hand, the characterizations of OPEFB-SAPCs have been carried out by using Fourier Transform Infrared Spectroscopy (FTIR), Thermogravimetric Analysis (TGA) and Field Emission Scanning Electron Microscopy (FESEM). The thermogravimetry analysis result of OPEFB-SAPC at 2.5% filler loading indicate that the SAPC shows a three stage degradation, which unlike the dense unorganized rigid structure been exhibited by the 12.5 wt% filler loading. Meanwhile, FTIR analysis shows OPEFB-SAPC (2.5 wt %) has sharp peak of bonding curves compared to OPEFB-SAPC (12.5 wt%).

Report Sara Laustsen, 2011

International RILEM Conference on Application of Superabsorbent Polymers and Other New Admixtures in Concrete Constuction Viktor Mechtcherine, Christof Schroefl, 2014

Reclamation of Arid Lands Mohammad Jafari, Ali Tavili, Fatemeh Panahi, Ehsan Zandi Esfahan, Majid

Ghorbani, 2017-10-31 This book provides an overview of arid and semi-arid lands conditions, their general characteristics, methods of management, conservation, exploitation and reclamation. It also focuses on how to utilize the potential of arid lands with the minimum manipulation and alteration. Arid and semi-arid areas represent a major part of natural ecosystems not only in Iran, but around the world, and mismanagement and inappropriate exploitation of these areas may lead to further gradual degradation. As such, an understanding of the characteristics of these areas is vital if they are to be conserved and reclaimed.

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