

APPLICATION OF SUPER ABSORBENT POLYMER IN FLOOD MANAGEMENT AND AGRICULTURAL WATER MANAGEMENT

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Abstract

Superabsorbent polymers (SAP) are hydrophilic materials that can absorb and retain huge amounts of water. The absorbency varies from 100 to 400 times depending on environmental conditions. The material absorbs water and swells. It is analyzed through experimentation that the permeability of the swelled material is within limits of semi pervious material. So it can be used for retaining the flood water and manage low to moderate floods. Specifically, it can be used for managing low to moderate floods of agricultural farm lands. The disposal of the material is the main difficulty which can be solved out by using it in agriculture. Agriculture is the basic need to survive on earth. However due to extreme havoc of the environment, the survival of the farmers became difficult. So, the farmers started diverting their profession. Many farmers sold out their agricultural lands due to environmental abnormalities. Heavy rainfall and water scarcity are the two extreme conditions in agriculture. Water scarcity is further accompanied by high temperature. In this paper, two concepts have been combined together. One is use of super absorbent polymer for moderate floods and other is use of its residue in agriculture. The residue or material can be effectively used in agricultural crops and reduce the water requirement by about 50%.

Keywords: Superabsorbent Polymer (SAP), Hydrophilic, Residue

1. Introduction

Flooding is extremely dangerous and causes extensive damage to life and property. Prolonged, extensive rainfall is the main cause of flooding. Flood occurs when natural watercourses do not have the capacity to convey excess water. Floods also have a drastic effect on the agricultural land and destroy various crops. Agriculture is the basic need to survive on earth. Throughout human history, agriculture has been a source of food, fuel and fiber [1]. However due to extreme havoc of the environment, the survival of the farmers became difficult. So, the farmers started diverting their profession. Many farmers sold out their agricultural lands due to environmental abnormalities. Water scarcity and heavy rainfall are the two extreme conditions in agriculture. Water scarcity is further accompanied by high temperature. Agricultural sector is one of the largest consumers of water. The method of irrigation practiced in large parts of the country is surface irrigation under which crop utilizes only less than one half of the water released and remaining half gets lost in conveyance, application, runoff and evaporation. High initial cost, inadequate subsidy amount, lack of availability of technical input, clogging of dripper and cracking of laterals, damages due to rats and squirrels, high cost of spares and components etc., are some of the major problems faced by farmers. Hence, there is a need of a new irrigation system, which requires less amount of water for the better production of crops. In view of this, Superabsorbent polymers (SAPs) are used for advance agriculture which reduces the amount of water needed for the crops and also reduces frequency of watering for arid and desert areas. Desertification is the degradation of land in arid, semi arid and dry areas resulting from various factors including

climatic variations and human activities. It can be solved by the use of synthetic materials with good water absorption and retention capacities even under high pressure or temperature [2].

In this paper, two concepts have been combined together. One is use of super absorbent polymer for managing low to moderate floods and other is use of its residue in agriculture. The residue or material can be effectively used in agricultural crops and reduce the water requirement by about 60%. The paper is outlined as under: first properties, technical features and significance of the material is presented. Then water absorption and swelling, permeability test, variation in moisture content and water requirement in plants has been described step by step.

2. Material and Methods

2.1 Superabsorbent Polymer (SAP)

Superabsorbent Polymers are the materials that have the ability to absorb and retain large volumes of water and aqueous solutions. The hydrated gel particles retain the absorbed water even under pressure. This unique ability to hold absorbed water, even against pressure, is the major advantage of using super absorbent polymers. It is a macro molecule polymer which is non-toxic, non-irritating and non-corrosive. It is natural, biodegradable starch-based formulation. It has greater water absorption potential and the ability to freely release water under atmospheric condition. SAP materials cannot return to their starting monomers, i.e., they are scientifically irreversible to toxic initiating materials [3]. SAP

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