

Chemical Composition of Water Absorbing Topmix Permeable Materials Used for Prevention of Flooding and Enhance Ground Water Level

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Abstract

The concrete has a permeable layer on the surface, made up of large pebbles so water can drain almost instantly. Under that layer is an 'attenuation layer', which pushes the water into a drainage system that connects with the city's groundwater reservoirs. So, the water is directed straight back into the system for irrigation, drinking water, swimming pools, and firefighting purposes. Another cool advantage of this permeable concrete is just that, it will also be cooler than regular concrete during the hottest months of the year. "During periods of rising temperatures and intense rainfall, water stored within the system evaporates creating cooling effect reducing surface temperatures," Tarmac said in a press statement. Unfortunately, this concept isn't entirely flawless. If the water happens to freeze under Topmix Permeable, the entire system would be destroyed, so the concrete can only be used in warm climates where there isn't a chance of freezing. Uses tiny pieces of crushed granite packed together. Known as 'no-fines concrete', this has a high void content of 20-35%, and allows surface water to drain through and dissipate naturally. It consists chiefly of three minerals: quartz, alkali feldspar (which contain alumina and silica) and plagioclase feldspar (which contain sodium and calcium). It also contains small amounts of minerals such as hornblende and biotite mica.

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