Asphalt absorbs more than 11,000 liters of water every hour, running out of flooding

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1. Plastic roads are capable of . self-filling potholes in the Netherlands
2. Why is Roman concrete 2,000 years ago more sustainable than modern concrete?

Last year, Yellowstone National Park, the US introduced to the public the special bitumen called Flexi-Pave that was capable of "drinking water" amazingly. A 370 square meter pavement made entirely from recycled tires and stones can absorb more than 11,000 liters of water per hour (183 liters / minute).

Flexi-Pave asphalt is manufactured by KBI company. Ordinary asphalt or concrete only has the effect of wiping away water from the surface, but the material that makes up Flexi-Pave allows rainwater to penetrate straight into the ground, forming an underground waterway that still ensures good quality. submit.

KBI has cleverly combined the recycled tire components, stones and its own proprietary binder to create Flexi-Pave materials with 23% porosity. As a result, this mixture allows rainwater to be absorbed into the ground and quickly enter the groundwater, causing contaminants to not dissolve with water. This helps reduce pollution and is good for groundwater in the long run.

The entire Yellowstone National Park uses a total of 1,536 Michelin tires trimmed to produce asphalt on an area of ??1,200m2. With its superiority, Flexi-Pave has been used in about 300 cities across the United States.

KBI hopes that, in the future, the entire world from sidewalks, car parks, road surfaces . will use this advanced asphalt. At that time, many cities in the world can solve or limit flooding problems.

In 2015, a British company also introduced miraculous concrete made from smooth granite pieces, which can suck 4000 liters of water in a minute (much larger than the speed of 183 liters / min of KBI). .

But Kevin Bagnall, KBI's founder and CEO, still believes that asphalt made from recycled, environmentally friendly and cheap tires will be a better choice than granite.

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