

RECYCLED CRUMB RUBBER COATING



An Anti-Corrosion Coating using Recycled Crumb Rubber that is low cost, high performance, and environmentally-friendly.

The Invention

Recycled Crumb Rubber (RCR) mixed with other chemicals to produce corrosion resistance coating applied on steel surfaces:

- It helps conserving the environment and natural resources.
- It has a low cost structure and high performance especially for oil and gas pipelines.

Market Need

Corrosion is the damaging attack of a material by reaction with its environment. The consequences of corrosion have become a global problem. In fact, corrosion causes waste of valuable resources, plant shutdowns, loss of product, costly maintenance, and reduction in efficiency. The annual cost of corrosion in the US exceeded \$1 trillion in 2013. In addition, the annual cost of corrosion in Saudi Arabia was more than \$13 billion.

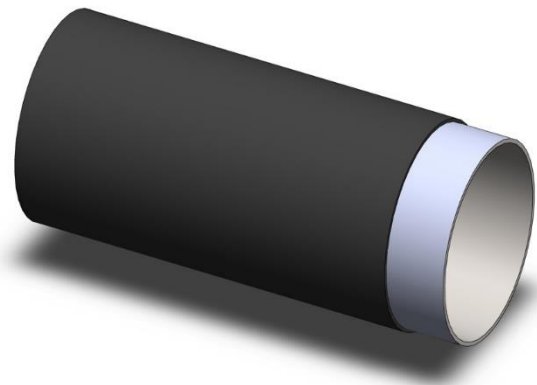
This invention is designed to be applied on external steel surfaces such as pipes by brush so far. It costs lower and has higher performance, which will reduce costs on business and gain higher margins. The product solves two main issues, which is corrosion and its implicated costs and pollution emitted from burning tires. It also emphasizes on the potential of RCR uses.

Competitive Advantage

The technology and its USP: Coating applied on steel surfaces externally to resist corrosion. It has a better performance by at least double the existing products in the market while it has a lower cost and promotes the use of recyclables.

Readiness for Market / Looking for a Development Partner

There are a number of investors interested in funding the technology; moreover, the proof of concept is still in progress. Telaa is a startup based on this technology located in Entrepreneurship Institute in Dhahran Techno Valley. The next step is to license the IP to a well-known coating manufacturer in the region while developing more products to suit more applications.



About KFUPM

King Fahd University of Petroleum & Minerals is a leading educational organization for science and technology. KFUPM Innovation Center is the IP management and technology licensing office tasked with taking innovation from lab to market place.

Patent Protection

This technology is protected by US patent application US20130345339A1.

For further information please contact:

Email: ip-license@kfupm.edu.sa

Telephone: +966 – 13 860 7685