

## **A Synthetic Modifier for Hot Mix Asphalts (J.S.S.M.)**

Asphalt Cement is a U.S.D. 6.0 Billion per annum industry, which continues to increase in size. Industry Experts Project the Asphalt market in the U.S.A. to grow by 7% annually in the foreseeable future; with even larger growth expected in the so-called B.R.I.C. (Brazil, Russia, India, China) countries. Capturing or expanding existing market share within this industry is therefore an extremely attractive and profitable endeavour and potentially a short term cash cow for the right Investor.

The technology which is being offered for sale (referred to henceforth as J.S.S.M) is a Synthetic modifier for hot Mix Asphalts (H.M.A), for use in roads and runways construction. At present, T.L.A. and polymers are the most commonly used modifiers on the market. J.S.S.M. is superior to these modifiers in the following ways:

- 1) It is not phase separating.
- 2) It is non-sedimenting.
- 3) It can be produced anywhere and is not tied to a specific source
- 4) Due to 1, 2 and 3, a road or runway made with J.S.S.M. asphalt has significant cost and performance benefits.

Furthermore, J.S.S.M. meets S.H.R.P. performance specifications criteria as borne out by independent laboratory test results. These advantages set J.S.S.M. apart from other modifiers that are currently available on the market making it a truly novel, valuable invention with a real potential for revolutionising the international asphalt Industry.

If you are interested in this technology, feel free to contact us and we would be pleased to provide further details including a comprehensive presentation on the offering.

Attached is further Information on the technology and a general brief for your review.

## **Invention Brief**

Invention- a Synthetic Modifier for Hot Asphalt mixes for road paving and method for making same, known as "JSSM".

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Patent/Details- Atty. Ref: 5825-2  
Serial No: 13/558 558  
Filed: 26.07.2012.  
U.S. Patent and Trade Office.

Patent Status: Pending

### **ABOUT THE INVENTION**

The present invention relates to a Synthetic Modifier for hot asphaltic mixes for road paving and other applications and to a method of making the Synthetic Modifier.

JSSM is the only solid bituminous modifier worldwide which has a maltene: asphaltene ratio of 76:24. It is an intimate mix of bitumen and various types of inorganic matter which is manufactured by reacting the organics and inorganics in a siloxane medium such that the finished product, JSSM, cannot be separated into its individual components. e.g. organic has inorganics and vice versa.

It is Superior to any asphaltic modifier available on the open market internationally in terms of performance, method and cost of manufacture, handling and transportation.

At present, other than this Invention, (the Synthetic Modifier), Trinidad Lake Asphalt (TLA) is the only other known solid bituminous modifier which is classified as Super Pave Grade.

Problems associated with TLA are documented in U.S. Patent No. 6558462.

Some of these problems are:

- \* Sedimentation
- \* Single Source Supply
- \* Costly process, requiring specialized equipment

- \* Expensive Packaging Material
- \* Topping up of drums or double handling (losses)

JSSM is not subject to ANY of these drawbacks and can be produced anywhere.

Independent Laboratory Test Results utilizing internationally accepted standards, from reputable organizations are available to substantiate the authenticity and validity of the Invention.

### **TARGET ORGANISATIONS**

The Invention (JSSM) is considered an Ideal fit for:

- Existing producers of Asphaltic Modifiers interested in investing in a Superior and cost effective product.
- Other producers of bituminous products seeking to invest in a lucrative downstream product with ready synergies.
- Construction Organisations with major Capital Investments towards Infrastructure developments, including major roads, highways and runway construction requiring modified asphalt and who wish to take control of an integral and expensive input in the production of asphalt and thus develop an automatic advantage against their competitors.
- Others seeking a lucrative revenue stream with substantial margins and short payback period.